



Test Report: **US190523005-2**

Testing Period: 6/3/2019 - 6/13/2019

Client: **Aaron Blank**
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Client Number: 50036357
Date of Sample Receipt: May 23, 2019
Item Description: **Stark Cotton White**
Number of Samples Submitted: 1
Model Number: MP8-0019
Color: White (See Photo)
Country of Origin: USA
Country of Destination: USA

Test Directory:	Results:
<u>ASTM Heavy Metals</u>	PASS
<u>CPSIA Lead</u>	PASS
<u>CPSIA Phthalates</u>	PASS
<u>Canada Heavy Metals</u>	PASS
<u>Canada Lead</u>	PASS

Created on behalf of
TUV Rheinland of North America

Hunter Adkins/Laboratory Technician
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Reviewed on behalf of
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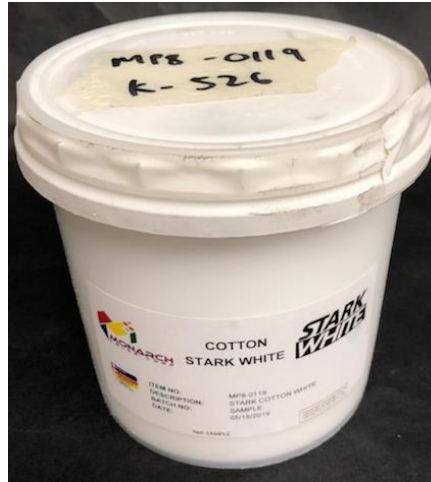
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This test report relates to the above mentioned test item and extent of tests performed. This test report is not permitted to be duplicated in extracts without permission of the test facility. This test report does not entitle any safety mark on this or similar products.

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Sample Photo:



Chemical Results:

ASTM HEAVY METALS

TOTAL HEAVY METALS - COATINGS:

The product shall comply with the requirements for the content of soluble heavy metals in accessible surface coatings as defined in ASTM F963-08 and ASTM F963-16, Specification for Toy Safety. The material may be evaluated by analysis of total element content screening to preclude the need for soluble analysis.

Test Method: Samples were digested and analyzed by Inductively coupled plasma - mass spectrometer according to ASTM F963-16 for total heavy metal content.

	[mg/kg]							Pass/Fail
	Sb	As	Ba	Cd	Cr	Hg	Se	
	Maximum Permissible Limit							
	60	25	1000	75	60	60	500	
Material No.	MDL (mg/kg)							
	5	5	5	5	5	5	5	
Stark Cotton White	6	ND	ND	ND	ND	ND	9	Pass

Note: mg/kg denotes milligram per kilogram (ppm) MDL = Method Detection Limit ND = None Detected

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CPSIA LEAD

TOTAL LEAD CONTENT IN SURFACE COATING:

The product shall comply with the Consumer Product Safety Act (CPSA) Regulations, 16 CFR 1303 and Consumer Product Safety Improvement Act (CPSIA). Surface coatings on toys and other articles intended for children shall not have total lead content in excess of 0.009 % (90 ppm).

Test method: The sample was digested with acid using microwave digestion techniques. Lead content – analyzed by Inductively Coupled Plasma – Mass Spectrometer (CPSC-CH-1003-09.1).

Material	Lead Content (mg/kg)	Maximum Permissible Limit 90 mg/kg
	MDL: 5 mg/kg	
Stark Cotton White	None Detected	Pass

Abbreviation: MDL = Method Detection Limit mg/kg denotes milligram per kilogram (ppm)

CPSIA PHTHALATES

Test method: The sample was analyzed by organic solvent extraction and GCMS according to CPSC-CH-C1001-09.4

Material	MDL: 0.005%								Maximum Permissible Limit 0.100 %
	DIBP (%)	DBP (%)	DPenP (%)	DnHP (%)	BBP (%)	DEHP (%)	DCHP (%)	DINP (%)	
Stark Cotton White	ND	ND	ND	ND	ND	ND	ND	ND	Pass

MDL = Method Detection Limit

BBP = Benzyl butyl phthalate CAS 85-68-7

DEHP = Diethylhexyl phthalate CAS 117-81-7

DCHP = Dicyclohexyl phthalate CAS 84-61-7

DINP = Diisononyl phthalate CAS 28553-12-0, 68515-48-0

ND = None Detected

DBP = Dibutyl phthalate CAS 84-74-2

DIBP = Diisobutyl phthalate CAS 84-69-5

DnHP = Di-n-hexyl phthalate CAS 84-75-3

DPenP = Di-n-pentyl phthalate CAS 131-18-0

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CANADA HEAVY METALS

CANADIAN TOTAL HEAVY METALS:

The product shall comply with the requirements of the *Canadian Hazardous Products Act* The Surface coating materials in Toys must not contain more than 0.1% (1000 ppm) by weight of soluble heavy metals (antimony, arsenic, cadmium, selenium, barium). The material may be evaluated by analysis of total element content screening to preclude the need for soluble analysis.

Test Method: Samples were analyzed for total content by Inductively coupled plasma – Mass Spectrometer.

Material No.	[mg/kg]					
	Sb	As	Cd	Se	Ba	
	Maximum Permissible Limit					
	1000	1000	1000	1000	1000	
	(mg/kg)					Pass/Fail
Stark Cotton White	ND	ND	ND	ND	ND	Pass

Abbreviation: mg/kg denotes milligram per kilogram (ppm) ND = None Detected

CANADA LEAD

TOTAL LEAD IN SURFACE COATINGS – CANADA:

The product shall comply with the requirements of the *Canadian Lead Risk Reduction Strategy for Consumer Products*. Products intended for play and learning for children aged 3-13, child care articles, clothing and accessories for children under the age of 14 years must not contain more than 90 ppm of lead (Pb).

Test Method: The sample was digested with acid using microwave digestion techniques. Lead content – analyzed by Inductively Coupled Plasma – Mass Spectrometer

Material	Lead Content (mg/kg)	Maximum Permissible Limit 90 mg/kg
	MDL: 5 mg/kg	
Stark Cotton White	None Detected	Pass

Abbreviation: MDL = Method Detection Limit mg/kg denotes milligram per kilogram (ppm)

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