

Client:	Aaron Blank
	Monarch Color Corporation
	Address: 5327 Brookshire Blvd., Charlotte, NC 28216 Phone: 704-394-4626
	Email: <u>ablank@monarchcolor.com</u>

Client Number:	50036357
Date of Sample Receipt:	May 23, 2019
Item Description:	Stark LB White
Number of Samples Submitted:	1
ModelNumber:	MP8-0120
Color:	White (See Photo)
Country of Origin:	USA
Country of Destination:	USA

Test Directory:	Results:
ASTM Heavy Metals	PASS
CPSIA Lead	PASS
CPSIA Phthalates	PASS
Canada Heavy Metals	PASS
Canada Lead	PASS

Created on behalf of TUV Rheinland of North America

Hunter Adkins/Laboratory TechnicianPhone:(479) 250-0064Email:hadkins@us.tuv.com

Reviewed on behalf of TUV Rheinland of North America

Brandon Kanwischer/Laboratory Technician Phone: (479) 250-0065 Email: <u>bkanwischer@us.tuv.com</u>

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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Lab Location:	Bentonville, AR, USA	

Sample Photo:

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## 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] |    |    |     |          |
|---------------------------|-------------|----|------|--------|----|----|-----|----------|
|                           | Sb          | As | Ba   | Cd     | Cr | Hg | Se  |          |
| Maximum Permissible Limit |             |    |      |        |    |    |     |          |
|                           | 60          | 25 | 1000 | 75     | 60 | 60 | 500 |          |
|                           | MDL (mg/kg) |    |      |        |    |    |     |          |
| Material No.              | 5           | 5  | 5    | 5      | 5  | 5  | 5   | Pass/Fai |
| Stark LB<br>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 microw ave digestion techniques. Lead content – analyzed by Inductively Coupled Plasma – Mass Spectrometer (CPSC-CH-1003-09.1).

| Material       | Lead Content (mg/kg) | Maximum Permissible Limit |  |
|----------------|----------------------|---------------------------|--|
| inatorial      | MDL: 5 mg/kg         | 90 mg/kg                  |  |
| Stark LB 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

|                | MDL: 0.005% |         |              |             |         |             | Maximum<br>Permissible |          |                  |
|----------------|-------------|---------|--------------|-------------|---------|-------------|------------------------|----------|------------------|
| Material       | DIBP (%)    | DBP (%) | DPenP<br>(%) | DnHP<br>(%) | BBP (%) | DEHP<br>(%) | DCHP<br>(%)            | DINP (%) | Limit<br>0.100 % |
| Stark LB 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.

|                   |                   |      | [mį        | g/kg]           |      |      |
|-------------------|-------------------|------|------------|-----------------|------|------|
|                   | Sb                | As   | Cd         | Se              | Ba   |      |
| Material No.      |                   |      | Maximum Pe | rmissible Limit |      |      |
|                   | 1000              | 1000 | 1000       | 1000            | 1000 |      |
|                   |                   |      |            |                 |      |      |
|                   | (mg/kg) Pass/Fail |      |            |                 |      |      |
| Stark LB<br>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 |  |
|----------------|----------------------|---------------------------|--|
| Material       | MDL: 5 mg/kg         | 90 mg/kg                  |  |
| Stark LB White | None Detected        | Pass                      |  |

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

- END OF REPORT -