

# Armstrong

Forensic Laboratory, Inc.

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September 1, 2017

Mr. Ryan Hall  
Fire Hose Toys



Re: Product Testing

Submitted By: Mr. Ryan Hall  
Company: Fire Hose Toys

## LABORATORY REPORT: B7PT3324-1

### Report Sections:

Laboratory Report, Analytical Data, Report Qualifiers/Definitions, Sample Receipt Checklist, and Chain of Custody.

### Sample Descriptions:

Laboratory ID	Sample Description
B7-3324A-001A	Double Knot HD
B7-3324A-002A	Frisbee Bevel

### Case Narrative:

Analyses of the samples submitted have successfully met the quality control requirements established by Armstrong Forensic Laboratory's (Armstrong) internal policies and the analytical method(s) utilized, unless otherwise noted. The reported values relate only to the sample(s) submitted. The samples submitted are separated for analysis. B7-3324A-001C (Fire Hose - White Fabric) and B7-3324A-002B (Fire Hose - White Fabric) were composited and reported as B7-3324A-003A. B7-3324A-001B (Handle - Red, White & Black Fabric), B7-3324A-001D (Squeaker - Squeaker Substrate), and B7-3324A-002C (Squeaker - Squeaker Substrate) were held without analysis.

Armstrong has provided assistance for compliance with U.S. Consumer Product Commission (CPSC) Guidelines in regard to Product Testing but component selection and the application of the results to the Product are ultimately the responsibility of the Client/Manufacturer.

*The analytical results in this report met all applicable accreditation requirements as noted. A Data Flag will note any exceptions to the requirements. This report may not be reproduced, except in full, without the written approval of the laboratory.*

Respectfully submitted,  
ARMSTRONG FORENSIC LABORATORY, INC.

Original signed by:

Kelly L. Wouters, PhD  
Laboratory Director  
PJLA Certificate L09-8  
PJLA Accreditation 64631  
B7-3324-1

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**Analytical Data**

Lab Number: B7-3324A-003A

Client ID: Composite of Fire Hose (001C and 002B)

**Lead** Date of Analysis: 08/31/17  
**Method: CPSC-CH-E1002-08** Method Flag: L

Analyte	Results	Reporting Limit	Units	Dilution Factor	CPSC Limit	Pass/Fail	Data Flag
Lead	< 37	37	ppm	1	100 ppm	PASS	

**Phthalates** Date of Analysis: 08/31/17  
**Method: CPSC-CH-C1001-09.3** Method Flag: L

Analyte	Results	Reporting Limit	Units	Dilution Factor	CPSC Limit	Pass/Fail	Data Flag
Benzyl butyl phthalate (BBP)	< 0.020	0.020	%	1	0.1 %	PASS	
Di-(2-ethylhexyl) phthalate (DEHP)	0.022	0.020	%	1	0.1 %	PASS	
Dibutyl phthalate (DBP)	< 0.020	0.020	%	1	0.1 %	PASS	
Diisodecyl phthalate (DIDP)	< 0.020	0.020	%	1	0.1 %	PASS	
Diisononyl phthalate (DINP)	< 0.020	0.020	%	1	0.1 %	PASS	
Di-n-hexyl phthalate (DnHP)	< 0.020	0.020	%	1	0.1 %	PASS	
Di-n-octyl phthalate (DnOP)	< 0.020	0.020	%	1	0.1 %	PASS	



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### **Report Qualifiers/Definitions**

#### *Report Qualifiers (Data Flags):*

- A - Analysis accredited by ASCLD/LAB-*International* and TxDPS.
- AP - Accreditation is pending.
- B - The analyte was detected in the method blank.
- BDL - Below Detection Limits
- C - Results are Method blank subtracted.
- D - The sample required dilution to meet AFL/Method QC acceptance requirements.
- DS - The Surrogates/Internal Standards were diluted past report limitations.
- E - Analysis accredited by NELAP for TCEQ.
- H - Analysis accredited by AIHA.
- J - Estimated Value
- L - Analysis accredited by PJLA for CPSC.
- N - This analyte is not currently a part of Armstrong's accreditation.
- O - Other/Explanation Provided
- Q - Results are outside AFL/Method acceptance limit.
- S - Results are Client blank subtracted.
- W - The results are based on the dry weight of the sample.
- V - Analyte concentration outside calibration range; the result is estimated.

#### *Report Acronyms and Symbols:*

- BRL - Below Reporting Limits
- COC - Chain of Custody; Evidence Transmittal Letter
- DF - Dilution Factor
- DL - Discharge Limit
- DUP - Duplicate
- GC/MS - Gas Chromatography/Mass Spectrometry
- LCS/D - Laboratory Control Sample/Duplicate
- MB - Method Blank
- MS/D - Matrix Spike/Duplicate
- NA - Not Applicable
- NR - Not reported by Client
- RL - Reporting Limits are the lowest concentration reportable with confidence.
- RPD - Relative Percent Deviation
- STD - Standards
- TIC - Tentatively Identified Compound
- QA - Quality Assurance
- QC - Quality Control

#### *Laboratory Accreditations, Licensures and Certifications:*

American Industrial Hygiene Association Certificate 101413: IHLAP, ELLAP

American Society of Crime Laboratory Directors/Laboratory Accreditation Board-*International*: Certificate ALI-037-T for Drug Chemistry: All Sub-Disciplines and Trace Evidence: Fire Debris, Paint, Fibers and Textiles, and General Physical and Chemical Analysis.

National Environmental Laboratory Accreditation Program TCEQ T104704 240

Perry Johnson Laboratory Accreditation 64631, to ISO 17025:2005

Texas Department of Public Safety Crime Lab for Drug Chemistry: All Sub-Disciplines and Trace Evidence: Fire Debris, Paint, Fibers and Textiles, and General Physical and Chemical Analysis.

Texas Department of State Health Services Mold Analysis Laboratory: LAB0107

Sample Receipt Checklist



More than just Numbers

Sample Receipt Checklist



Work Order Number B73324A

Date and Time Received: 8/28/2017 11:08:00 AM

Checklist completed by: Melissa Koehler <sup>Complete for All Samples</sup>  
 Signature: Koehler, Melissa A. | Date: 8/28/2017 2:24:00 PM  
 Carrier name: USPS  
 Received By: Allender, Belinda D.

Sample Containers Intact? Yes  No  N/A   
 Chain of Custody Complete? Yes  No  N/A   
 Chain of custody agrees with Sample Labels? Yes  No  N/A

Complete for Environmental and Industrial Hygiene, Only

Samples in Proper Containers? Yes  No  N/A   
 Sufficient Sample for Analysis? Yes  No  N/A   
 Sample Received within Hold Time? Yes  No  N/A   
 Temperature in compliance? Yes  No  N/A   
 Thermometer ID: T-092 Correction Factor: 0 Calibration Expires: 3/9/2018  
 Received on ice? Yes  No  N/A

Complete for Liquid Environmental, Only

VOA(s) Received without Headspace? Yes  No  N/A   
 pH's Acceptable? Yes  No  N/A   
 pH(s) Adjusted at Laboratory? Yes  No  N/A  By: \_\_\_\_\_  
 pH PaperID pH Paper Expires

All No responses must be detailed in the comments section below.

Person contacted : Date contacted : Contacted by :

Comments :

Action Taken :