

Assessment of Lead and Cadmium in Children's Jewelry Sold Online

Environmental Assessment Program

Author: Michael Zahn

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Abstract

In 2025, Washington State Department of Ecology conducted a study to assess lead and cadmium levels in inexpensive children's jewelry sold by online retailers and marketed for children 12 years and younger. Under Washington State's Children's Safe Products Act, lead and cadmium in children's products are restricted to 90 parts per million (ppm) for lead and 40 ppm for cadmium. At the federal level, the United States Consumer Product Safety Commission also enforces restrictions on lead and cadmium content in children's products.

We purchased 40 children's jewelry products available from online retailers in late 2025. A total of 60 component samples were analyzed for lead and cadmium. Thirty-three (55%) component samples from 22 products contained lead, cadmium, or both above the reporting limit of 1.0 ppm. Seven (12%) component samples from five products contained lead or cadmium above the levels of concern outlined in the Children's Safe Products Act.

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Contact Information

Publications Coordinator
Environmental Assessment Program
Washington State Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600
Phone: 564-669-3028

Washington State Department of Ecology – <https://ecology.wa.gov>

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Background

Washington's Children's Safe Products Act (CSPA, Chapter 70A.430 RCW) limits the presence of toxic chemicals, including certain metals, in children's products. CSPA also requires manufacturers to annually report if their children's products contain the listed Chemicals of High Concern to Children (CHCC, Chapter 173-334 WAC).

In 2015, Ecology conducted a study to assess levels of lead, cadmium, and five other toxic metals (antimony, arsenic, cobalt, mercury, molybdenum) in children's jewelry (Sekerak 2016). The 2015 study found that 8 of the 38 samples (21%) tested children's jewelry items contained concentrations of lead and/or cadmium above the CSPA limit. The five other toxic metals tested were to assess compliance with the CHCC reporting rule.

Ecology conducted a follow-up study in 2018 to assess compliance with lead and cadmium standards for jewelry identified in the 2015 study (Nelson 2023). A total of 38 samples from 33 products were tested. Seven samples had incomplete digestion and were "J" qualified. Eleven samples (29%) contained cadmium above the 40 ppm limit, and seven samples (18%) contained lead above the 90 ppm limit.

Earlier in 2025, an in-store purchasing study by Ecology (Smith, 2026) found forty-four (73.3%) component samples from 39 children's jewelry products contained lead, cadmium, or both above the reported detection limits. Six (10%) component samples from five products contained lead, cadmium, or both above the levels of concern outlined in CSPA.

We conducted a late 2025 online retailer-focused study following the published Quality Assurance Project Plan (QAPP) Addendum 1 (Zahn 2025). This addendum study assessed levels of lead and cadmium in 60 jewelry sample components from a total of 40 children's chain/necklaces, bracelets, and hair accessory products purchased online. Children's jewelry, as defined in CSPA (Chapter 70A.430.010 RCW), is jewelry that is marketed and sold for use by children 12 years of age or younger. Study data were collected and validated for use.

Methods

Ecology's Quality Assurance Officer approved the QAPP addendum, Assessment of Lead and Cadmium in Children's Jewelry 2025: Children's Jewelry Online: Addendum 1 to QAPP, before we conducted the 2025 product purchasing, sample preparation, lab analysis, and data reporting (Zahn 2025). The QAPP (Smith 2025) and QAPP addendum outline the purchasing strategy, sample processing and analysis methods, quality objectives, quality control, study timeline, budget, and data reporting method. We followed standard operating procedures and QAPP-specified methods for the final data review.

Product Collection

We purchased jewelry that had designs appealing to children or were marketed for a child 12 years of age or younger. All products were purchased from online sellers. Sellers were prioritized for purchase based on: seller search-result prevalence, cost, availability, and

inclusion of search terms in the product marketing. Search terms may have included, but were not limited to: accessory, bracelet, chain, charm, child, children, children's, hair, jewelry, kid, kid's, multipack, pack, set, variety, and/or necklace.

Inexpensive, or low-cost, jewelry was prioritized in this study, including individual pieces costing \$5 or less and multipacks priced at \$15 or less. During sampling events, it was determined that a price point of \$5 or less per jewelry product was too restrictive. We adjusted the purchasing threshold for single products costing approximately \$10 or less. Multipacks, meaning there were two or more jewelry pieces sold as one product, included multiple chains/necklaces, multiple bracelets, multiple hair accessories, or a mix of jewelry types (variety pack). We considered a multipack as one purchased product. In total, 40 products were purchased from 10 online retailers. Purchase events occurred on September 10th, 16th, 18th, 22nd and 23rd, 2025.

Table 1. Jewelry product category, the number of each purchased, product category total, and anticipated purchasing numbers.

Product Category	Number of Products Purchased	Number Attributed via Variety Packs	Category Total	Category Number Anticipated for Purchasing
Chain / Necklace	12	5	17	20
Bracelet	6	5	11	10
Hair Accessory	17	0	17	20
Jewelry Variety Pack: Necklace/Bracelet	5	—	—	—
Total	40	—	45	50

After each purchasing event, we placed all products in separate, clean, labeled zip-top bags and stored them in plastic totes. We labeled the totes according to the purchase event and stored them in restricted-access, locked cabinets in Ecology's product studies preparation room.

Sample Processing

The products were separated into 300 total components and recorded in the consumer product database¹ (CPD). X-ray fluorescence (XRF) screening of components was then used to prioritize sample selection for lab analysis. We chose the components for lab analysis if screening results indicated the presence of lead, cadmium, or both metals. If screening results from multiple components indicated the presence of lead and/or cadmium, then we prioritized the components indicating presence of both lead and cadmium for lab analysis. If screening data did not indicate the presence of lead or cadmium in any component of a product, components for analysis were prioritized by the heaviest metal component(s) or by

¹ <https://apps.ecology.wa.gov/consumerproducts/>

the heaviest plastic component(s) if no metal component was present. Two of the 40 purchased products were not selected for testing since, after screening, they did not appear to contain the target analytes. The other 38 products were prioritized for lab analysis.

Lab analysis with quality control samples requires a minimum of 2.5 grams of component material. The extremely small and lightweight nature of some products requires individual components to be composited, meaning multiple components are combined to create one sample. Since the components of children's jewelry are small and lightweight, compositing was required for 8 of the 60 samples (13%) to obtain enough material for analysis. We chose components for compositing based on XRF screening, component type, and material type (i.e., metal or plastic). Component types similar to one another (e.g., charms), or from the same jewelry item (e.g., components from a single necklace) were composited when possible. If smaller components, such as jump rings, had been chosen for analysis based on screening results, similar components, such as chains or clasps, were composited to ensure an appropriate weight for analysis.

A total of 60 component samples were sent to Ecology's Manchester Environmental Laboratory (MEL) for metals analysis. The majority, 37 of 60 samples, were metal. The remaining 23 samples were plastic (six of the component samples were considered a mix of metal/plastic after component processing, but were listed as either metal or plastic on the EDD). The component samples chosen for analysis included a variety of component types and are summarized in Table 2 and outlined in Appendix A, Table A-1.

Table 2. Jewelry product category and the number and type of components within each product category tested.

Product Category	Number of Components Tested
Necklaces	24
Beads	4
Chains	1
Charms	6
Clasps	2
Clasp, Jump Ring, Extender, and Lobster Claw Clasp (composite)	1
Locket	1
Pendants	8
Plastic Rhinestone	1
Bracelets	12
Beads	4
Chain	1
Charms	4
Clasp	1
Pendants	2
Hair Accessories	24
Alligator Clips	5
Barrettes	4
Charms	1
Décor	12
Headband Wire	1
Tension spring	1

We reduced the size of components by hand for analysis and placed them in pre-cleaned certified glass jars for transport to the lab. A courier delivered the samples to MEL, and submission of samples met all chain-of-custody requirements for the study.

Laboratory Procedures

Ecology's MEL prepared samples in one work order and five lab batches using microwave-assisted (less hydrofluoric acid) digestion by U.S. Environmental Protection Agency (EPA) Method 3052. Analysis for lead and cadmium was performed following EPA Method 6020B using inductively coupled plasma mass spectrometry (ICP-MS). Instruments were calibrated with National Institute of Standards and Technology (NIST) traceable standards and were verified with a second-source NIST traceable standard. All instrument calibration (initial and continuing) verification checks were within acceptance limits.

Published data in the CPD will be reported in milligrams per kilogram (mg/kg), which is equivalent to parts per million (ppm). This report will use ppm to discuss results, as regulatory language generally uses ppm to describe limits.

Data Quality

A Stage 3 data validation report and electronic data deliverable were received via email on February 12, 2026. The laboratory case narrative/report was received via email on February 23rd 2026. The laboratory case narrative/report and data validation report provided a discussion and assessment of the data quality, analysis methods, instrument calibration, and quality control. All analyses followed the technical specifications, methods, and quality assurance/quality control requirements of MEL methods and the study's QAPP and Addendum 1 (Smith 2025; Zahn 2025). The project manager reviewed and accepted all data.

All results without qualifiers are valid and useable as reported. Sample results with a "J" qualifier indicate the result is an estimate. Sample results with a "U" qualifier indicate that concentrations were not above the reporting limit of 1.0 ppm or adjusted reporting limit. Sample results with a "UJ" qualifier indicate the analyte was not detected above the reporting limit of 1.0 ppm or adjusted reporting limit and is an estimate. Results with "J" or "UJ" qualifiers are discussed below:

Eighteen of the samples did not completely go into solution (incomplete digestion) during sample preparation. These samples were qualified as estimates, "J" or "UJ." The associated qualified results may be biased low:

- Metal matrix sample GPR-1-3-1
- Mix Metal/Plastic matrix samples: AM-56-1-4, AM-56-1-8, AM-56-1-12, CE-1-1-1 (and duplicate)
- Plastic matrix samples: AM-55-2-16, AM-55-3-7, AM-55-3-13, AM-55-3-19 (and MS/MSD), CE-1-4-1, GPR-1-1-5 (and MS/MSD), GPR-1-4-1, JC-11-2-3 (and duplicate), JC-11-5-1, SHE-2-1-5, SHE-3-1-1, TG-55-1-2, TG-55-2-8

Results

The results represent 60 component samples from 38 children's jewelry products tested for lead and cadmium. Eight (13%) of the 60 component samples analyzed were composites of multiple components. Of the 60 component samples, 27 samples (45%) contained lead, and 26 samples (43%) contained cadmium above the reporting limit (1.0 ppm) or adjusted reporting limit. Detected concentrations of lead ranged from 1.07 ppm to 379 ppm. Detected concentrations of cadmium ranged from 1.07 ppm to 877000 ppm.

Seven samples contained lead or cadmium above the levels of concern of 90 ppm for lead and 40 ppm for cadmium. Those seven samples consisted of components from five unique products, and three that were composites of components.

The product description and component identification numbers for those samples containing lead above 90ppm, cadmium above 40ppm, or both metals are listed below:

- The crown from the pink and purple bows of the **Crown Shaped Bow Hair Clips** (AM-56-4-1) contained cadmium above 40 ppm.
- The multicolor ABC, pencil, books, crayon box and purse charms (BAB-1-1-1) from the **Hit The Books Kids' Pisa Bracelet Set** contained lead above 90 ppm.
- The plastic cover from the **Fruitylicious Hair Clips** (CE-1-2-6) contained cadmium above 40 ppm.
- The blue rabbit charm from the **Rabbit Best Friend Kids Bracelets** (CE-1-3-2) contained cadmium above 40 ppm.
- The purple rabbit charm from the **Rabbit Best Friend Kids Bracelets** (CE-1-3-3) contained cadmium above 40 ppm.
- The meyor charm, magnet, and amigo charm from the **Best Friend Soccer Wear One Share One Necklace Set** (WM-64-3-3) contained cadmium above 40 ppm.
- The football pendant, amigo side from the **Best Friend Soccer Wear One Share One Necklace Set** (WM-64-3-7) contained cadmium above 40 ppm.

Composite sampling allows for testing small components that would otherwise not meet the minimum size required for laboratory testing. At the time of testing, a small subsample is taken from the submitted sample. The uneven relative size and weight of different components likely resulted in uneven distribution among the pieces tested. Since many of the samples were composites of multiple components, we cannot determine whether one or all of the individual components included within a sample contained lead, cadmium, or both. Results could be affected by multiple components being included in or excluded from the analysis, as well as dilution of a single component's content, resulting in lower detections of lead and cadmium.

Conclusions

A total of 60 component samples from 38 children's jewelry products were tested for lead and cadmium. Thirty-three (55%) component samples from 22 products were found to contain lead, cadmium, or both above the reporting limit of 1.0 part per million. Seven (12%) component samples from five products contained lead above 90 ppm, cadmium above 40 ppm, or both metals above those levels.

The data for this project were forwarded to Ecology's Children's Safe Products Act compliance specialist for evaluation under Washington State laws.

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Appendix A.

Table A-1 Summary results for Children's Jewelry 2025.

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm)	Cadmium (ppm)
Baby Shark Kids Hair Clip Set	AM-55-1-10	Silver Snap Clip Barrette	No	193466026933	Pink Fong	Amazon, HER Accessories	0.99U	0.99U
Daisy Snap Clip Set	AM-55-2-16	Tan and Pink Plastic Flower	Yes	041457328101	Goody Kids	Amazon, Goody Products, Inc.	0.98UJ	0.98UJ
Kids Jewelry Necklace and Bracelet Set	AM-55-3-1	Blue Necklace Unicorn Charm	No	—	Pinksheep	Amazon, Guangzhoushi Tongzhi Jewelry Co., LTD.	0.96U	0.96U
Kids Jewelry Necklace and Bracelet Set	AM-55-3-7	Multi-Colored Necklace Rainbow Charm	No	—	Pinksheep	Amazon, Guangzhoushi Tongzhi Jewelry Co., LTD.	0.97UJ	0.97UJ
Kids Jewelry Necklace and Bracelet Set	AM-55-3-13	Pink Necklace Mermaid Charm	No	—	Pinksheep	Amazon, Guangzhoushi Tongzhi Jewelry Co., LTD.	0.96UJ	0.96UJ

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm)	Cadmium (ppm)
Kids Jewelry Necklace and Bracelet Set	AM-55-3-19	Pink Necklace and Bracelet Pearlescent Bead	No	—	Pinksheep	Amazon, Guangzhoushi Tongzhi Jewelry Co., LTD.	49UJ	0.98UJ
8 Pcs Cute Butterfly Necklace	AM-56-1-1	Lobster Claw Clasp	No	—	—	Amazon	18.1	15.4
8 Pcs Cute Butterfly Necklace	AM-56-1-4	White Butterfly Pendant	No	—	—	Amazon	50UJ	8.19J
8 Pcs Cute Butterfly Necklace	AM-56-1-8	Yellow Butterfly Pendant	No	—	—	Amazon	10.4J	18.6J
8 Pcs Cute Butterfly Necklace	AM-56-1-12	Pink Butterfly Pendant	No	—	—	Amazon	49UJ	10.3J
8 Pcs Cute Butterfly Necklace	AM-56-1-14	Orange Butterfly Pendant	No	—	—	Amazon	16.6	19
8 Pairs/16 Pack Hair Clips for Girls	AM-56-2-1	Snap Clip Barrette	No	—	Gingbiss	Amazon	1.31	0.97U

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm)	Cadmium (ppm)
5 Pcs Heart Locket Necklace	AM-56-3-1	Lobster Claw Clasp	No	—	Hicarrer	Amazon, Dongguan Yaomiaoyan Network Technology	16.8	21.3
Crown Shaped Bow Hair Clips	AM-56-4-1	Crown, from Pink Bow	Yes	—	Hot&Sattion	Amazon	11.5	42.4
Crown Shaped Bow Hair Clips	AM-56-4-4	Round Shaped Jewel, from Pink Bow	Yes	—	Hot&Sattion	Amazon	0.97U	0.97U
Hit The Books Kids' Pisa Bracelet Set	BAB-1-1-1	Multicolor ABC Charm	Yes	889967820285	minibar	BaubleBar	379	2.74
Hair Scare Kids' Headband	BAB-1-2-3	Pumpkin Charm	No	889967903384	minibar	BaubleBar	13.3	1.13
Disney Moana Kids' Jewelry Set	BAB-1-3-1	Charm	No	889967998724	Disney	BaubleBar	18.4	17.3
Happy Face Kid's Necklace	CE-1-1-1	Silver Beads	No	—	Blossom	Cherrie	29.8J	2.89J
Fruitylicious Hair Clips	CE-1-2-3	Metal Alligator Clips	No	—	Superstar Accessories	Cherrie	0.98U	0.98U

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm)	Cadmium (ppm)
Fruitylicious Hair Clips	CE-1-2-6	Plastic Cover	No	—	Superstar Accessories	Cherrie	0.96U	149
Rabbit Best Friend Kids Bracelets	CE-1-3-2	Blue Rabbit Charm	No	—	Princess Accessories	Cherrie	15	867000
Rabbit Best Friend Kids Bracelets	CE-1-3-3	Purple Rabbit Charm	No	—	Princess Accessories	Cherrie	15.2	877000
Rabbit Best Friend Kids Bracelets	CE-1-3-5	Magnet Clasp	No	—	Princess Accessories	Cherrie	17.8	19.7
Sweet Unicorn Kids Jewelry Set	CE-1-4-4	Unicorn Charm	No	—	Mint	Cherrie	0.96UJ	0.96UJ
Brownie Hair Bows	CE-1-5-1	Metal Alligator Clips	No	—	—	Cherrie	1.14	0.98U
Fairy Princess Tiara	GPR-1-1-5	Headband	No	771877153105	Great Pretenders	Great Pretenders, Creative Education of Canada, Inc.	1UJ	1UJ

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm)	Cadmium (ppm)
Ballet Beauty Bracelet	GPR-1-2-1	Ballerina Charm	No	771877840845	Great Pretenders	Great Pretenders, Creative Education of Canada, Inc	14	7.66
Ballet Beauty Bracelet	GPR-1-2-3	Pink Beads	No	771877840845	Great Pretenders	Great Pretenders, Creative Education of Canada, Inc	0.98U	0.98U
Sparkle Heart Bobble Hair Clips	GPR-1-3-1	Pink Snap Clip Barrettes	Yes	771877880568	Great Pretenders	Great Pretenders, Creative Education of Canada, Inc	0.97UJ	0.97UJ
Sparkle Heart Bobble Hair Clips	GPR-1-3-2	Pink Plastic Heart	No	771877880568	Great Pretenders	Great Pretenders, Creative Education of Canada, Inc	1U	1.46
Sparkle Heart Bobble Hair Clips	GPR-1-3-4	Violet Plastic Heart	No	771877880568	Great Pretenders	Great Pretenders, Creative Education of Canada, Inc	1U	1.07

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm)	Cadmium (ppm)
Rockin' Heart Necklace	GPR-1-4-1	Necklace Purple Beads	No	771877861154	Great Pretenders	Great Pretenders, Creative Education of Canada, Inc	1UJ	1UJ
Rockin' Heart Necklace	GPR-1-4-2	Necklace Multi-Colored Rhinestones	No	771877861154	Great Pretenders	Great Pretenders, Creative Education of Canada, Inc	0.98U	0.98U
4-pack Hair Clips	H&M-1-1-1	Metal Snap Clips	No	—	H&M	H&M, Hennes & Mauritz Colombia S.A.S.	1.51	0.97U
Pendant Necklace	H&M-1-2-2	Flower Pendant	No	—	H&M	H&M	23.2	3.26
Girls BFF Necklace Set	JC-11-1-1	Clasp, Jump Ring, Extender, and Lobster Claw Clasp	No	1917730837940	Capelli	JC Penney, Capelli New York	4.22	0.97U
2 Piece Claw Clips	JC-11-2-3	Pink Stars	No	191730837087	Capelli	JC Penney, Capelli New York	0.99UJ	0.99UJ

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm)	Cadmium (ppm)
Bow Hair Clips Set	JC-11-3-1	Metal Alligator Clips	No	027467475219	So 'Dorable	JC Penney, Shalom International	0.99U	0.99U
Faux Hair Clip Collection	JC-11-4-2	Silver-Colored Tension Spring	Yes	191730838213	Capelli	JC Penney, Capelli New York	0.95U	0.95U
Faux Hair Clip Collection	JC-11-4-8	Green Hair	No	191730838213	Capelli	JC Penney, Capelli New York	0.98U	0.98U
Flower Power Bracelet and Necklace Set	JC-11-5-1	Opaque Pink Round Beads	Yes	191730838039	Capelli	JC Penney, Capelli New York	0.99UJ	0.99UJ
Rhodium & Gold Barrettes	MK-10-1-4	Silver-Colored Alligator Clip	No	195158644319	Creatology	Michaels, MSPCI	1.17	0.98U
Gold Chain Bracelets	MK-10-2-3	Chain, Gold Color	No	195158655032	Creatology	Michaels, MSPCI	0.97U	1.83
2 Piece Cat Necklace Set	SHE-1-1-2	Chain	No	—	Red Cherry	Shein, Yiwu Hanpai Jewelry Co., Ltd	1.52	0.93U

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm)	Cadmium (ppm)
Mermaid Tail Jewelry Set	SHE-2-1-5	Necklace and Bracelet Pearlescent Beads	No	—	—	Shein	98UJ	0.98UJ
Toddler Girls Flower Hair Clips	SHE-3-1-1	Multicolored Flower Beads	No	—	—	Shein, Yiwu Modie Jewelry Co., Ltd.	0.98UJ	0.98UJ
Toddler Girls Flower Hair Clips	SHE-3-1-2	Metal Alligator Clips	No	—	—	Shein, Yiwu Modie Jewelry Co., Ltd.	0.97U	0.97U
Kids Bluey Bracelets Set	TG-55-1-2	White Flower Beads with Letters	No	193466108134	Bluey	Target, H.E.R. Accessories	0.97UJ	0.97UJ
Kids Stitch Bracelets Set	TG-55-2-8	Clear Beads	No	193466108141	Disney	Target, H.E.R. Accessories	0.97UJ	0.97UJ
Pink Bow Locket	TG-55-3-4	Pink and Gold Heart Shaped Locket with Bow	No	198101333261	Cat & Jack	Target, Target Corporation	0.98U	0.98U
Metal Hair Styling Braid Charms	WM-64-1-1	Braiding Cord	No	731509815771	Kiss Colors and Care	Walmart, 2022 Kiss Products, Inc.	1.07	1U
Metal Hair Styling Braid Charms	WM-64-1-3	Crown Tubes	No	731509815771	Kiss Colors and Care	Walmart, 2022 Kiss Products, Inc.	1U	1U

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm)	Cadmium (ppm)
12 Pcs Necklaces Bracelets Set	WM-64-2-11	Multi-Colored Bracelet Rainbow Pendant	No	5313661677043	Abaima	Walmart	35.9	17.8
12 Pcs Necklaces Bracelets Set	WM-64-2-17	Yellow Bracelet Unicorn Pendant	No	5313661677043	Abaima	Walmart	18.3	7.55
12 Pcs Necklaces Bracelets Set	WM-64-2-19	Necklace Blue/White Unicorn Pendant	No	5313661677043	Abaima	Walmart	26.3	31.5
12 Pcs Necklaces Bracelets Set	WM-64-2-22	Necklace Rainbow Unicorn Pendant	No	5313661677043	Abaima	Walmart	9.94	23.1
Best Friend Soccer Wear One Share One Necklace Set	WM-64-3-3	Mejor Charm	Yes	195426103357	Wonder Nation	Walmart, Wal-Mart Stores Inc.	14	146000
Best Friend Soccer Wear One Share One Necklace Set	WM-64-3-7	Football Pendant, Amigo Side	No	195426103357	Wonder Nation	Walmart, Wal-Mart Stores Inc.	10	329000

Product Description	Component ID	Component Description	Composited Sample	UPC Number	Brand	Companies Associated	Lead (ppm)	Cadmium (ppm)
Rhinestone Tiara 6 Pack	WM-64-4-4	Large Round Shaped Jewel	No	—	Walmart	Walmart	0.99U	0.99U

Note. Bolded font for Lead or Cadmium indicates a result above CSPA levels.

ppm = parts per million

J = data qualifier indicating the result is an estimate.

U = data qualifier indicating the analyte was not detected above the reporting limit.

UJ = data qualifier indicating the analyte was not detected above the reporting limit and is an estimate.