CAMPAIGN FOR Healthier Solutions



TOXIC CHEMICALS IN DOLLAR STORE PRODUCTS: 2022 REPORT

Discount retailers continue to push toxic superheroes, food packaging, cookware and electronics



EXECUTIVE SUMMARY

he Campaign for Healthier Solutions a project of the Coming Clean and the Environmental Justice and Health Alliance commissioned The Ecology Center Healthy Stuff Lab to conduct a screening of consumer products sold at discount retailers, also known as dollar stores. The target retailers include Dollar Tree, Family Dollar, Dollar General, Five Below and 99 Cents Only Stores. This report presents a summary of the results of the testing and highlights select products with hazardous chemicals of concern.

Sample Collection: In early 2021, 226 products were purchased from all of the leading dollar store retailers in the US and Canada. Products were purchased from seven states (Michigan, Pennsylvania, California, New Mexico, Washington, Maine, Texas) and Ontario, Canada. Products tested included 226 consumer products, 33 cans of food, and 22 packages of microwave popcorn. Receipts from 28 store purchases were also tested. The 226 products contained a total of 635 unique components or materials. Each of these were tested using one or more test methods, depending on the typical chemicals of concern for that product type. For food products, the packaging, not the food, was tested.

Chemicals of concern are those which, due to their inherent hazardous properties, present a known or reasonably suspected risk to human health and/or the environment. The levels of concern for each chemical were established by Healthy Stuff Lab by reviewing levels restricted in one or more of the most protective government, corporate, or thirdparty standards on hazards in consumer products.

These levels are similar to those used in our 2015 sampling of dollar store products. You can access the 2015 report <u>here</u> Products were subjected to 4 different analytical techniques:

High-definition X-ray fluorescence spectroscopy (HD XRF): 635 product components were screened for elements of interest by HD XRF using an HD Mobile spectrometer by XOS. This technique measures levels of elements heavier than aluminum on the periodic table. This includes toxic metals such as lead and cadmium as well as bromine, chlorine, and phosphorus that, depending on the matrix, can indicate flame retardant chemicals.

Fourier Transform Infrared (FTIR) spectroscopy: A

subset of components were analyzed by FTIR to determine the polymer type (for example, cotton or polyethylene) and major additives. A subset were also subject to solvent extraction followed by FTIR to test for the presence of additives such as plasticizers or flame retardant chemicals. The identification of the reported chemicals by FTIR have been previously validated by gas or liquid chromatography coupled with mass spectrometry carried out by third-party labs.

Total Fluorine by Oxygen Flask Combustion and Ion-Selective Electrode: Select food packaging was evaluated for possible PFAS presence at Galbraith Laboratories by measuring total fluorine. This method detects fluorine from both polymeric and non-polymeric PFAS and thus is used to screen items for likely PFAS.

Threshold Levels, in parts per million

| Arsenic | Bromine | Cadmium | Chlorine | Chromium | Mercury | Lead | Antimony | Tin |
|---------|---------|---------|----------|----------|---------|-------|----------|-------|
| > 100 | > 400 | > 100 | > 10,000 | > 100 | > 100 | > 100 | > 100 | > 100 |

CHEMICAL HAZARD SCREENING SUMMARY

he preliminary screening results for products indicate a number of chemical hazards are present in these products. **Overall, one-half (53%) of the products** screened had one or more chemicals of concern. The following concerns were identified in the products which were tested.

- Canned food products with toxic interior can coatings, including BPA-based epoxy and PVC can body coatings
- Pans and cookware coated with PTFE (a PFAS coating) and BPA-based epoxy

- Microwave popcorn products with PFAS coatings inside the packaging. 100% of microwave popcorn tested positive for PFAS coatings
- Bisphenol S in 100% of store receipts tested from all retailers
- Products made with flexible PVC which had banned, regulated or inadequately studied plasticizers
- Consumer electronics with lead solder, flame retardants and phthalate plasticizers
- A variety of products which contained other chemicals of concern, including antimony compounds, organotins and bromine

Number of Products with Chemical of Concern (COC) Detected, above screening level

| Retailer | # Products | 1 or more COC | Percentage | |
|----------------------|------------|---------------|------------|--|
| Five Below | 38 | 25 | 66% | |
| Family Dollar | 37 | 18 | 49% | |
| Dollar Tree | 87 | 52 | 60% | |
| Dollar General | 32 | 12 | 38% | |
| 99 Cents Only Stores | 32 | 13 | 44% | |
| ALL - 2021 | 226 | 120 | 53% | |
| ALL – 2015 Report | 164 | 132 | 80% | |

ALL PRODUCTS - US & CANADA RETAILED

US RETAILED PRODUCTS

| Retailer | # Products | 1 or more COC | Percentage | |
|----------------------|------------|---------------|------------|--|
| Five Below | 38 | 25 | 66% | |
| Family Dollar | 37 | 18 | 49% | |
| Dollar Tree | 67 | 40 | 61% | |
| Dollar General | 32 | 12 | 38% | |
| 99 Cents Only Stores | 32 | 13 | 41% | |
| ALL | 206 | 108 | 53% | |

CANADA RETAILED PRODUCTS

| Retailer | # Products | 1 or more COC | Percentage | |
|-------------|------------|---------------|------------|--|
| Dollar Tree | 20 | 12 | 60% | |

Note: This data is preliminary and subject to change as further analysis of these products is completed.



DISNEY FROZEN II HAIR SET ASSEMBLY

Retailer: Five Below Brand/Distributor: Townley UPC: 1956542666 Retailer State: Maine Chemicals of concern: PVC components (>50% chlorine), Ortho Phthalate plasticizer



SQUISHY UNICORN HEADPHONES

Retailer: Five Below Brand/Distributor: Traxx, 1616 Holdings,Inc. UPC: 9223406267 Retailer State: California Chemicals of concern: Ortho Phthalate plasticizer

DISNEY PRINCESS KIDSAFE WIRELESS HEADPHONES, AGES 6+

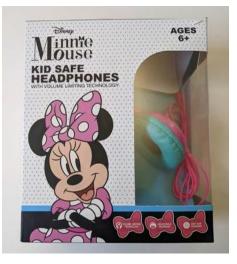
Retailer: Five Below Brand/Distributor: Disney, 1616 Holdings, Inc. UPC: 9223406245 Retailer State: Maine Chemicals of concern: TDCIPP (chlorinated tris) flame retardant in earphone foam, 65.6% (656,000 ppm) lead in solder





MINNIE MOUSE HEADPHONES

Retailer: Five Below Brand/Distributor: Disney, 1616 Holdings, Inc. UPC: 9223401735 Retailer State: Michigan Chemicals of concern: PVC components (>50% chlorine), Ortho Phthalate plasticizer, TCPP flame retardant, 56% (560,623 ppm) lead in solder



MARVEL AVENGERS KID SAFE HEADPHONES

Retailer: Five Below Brand/Distributor: 1616 Holdings, Inc UPC: 9223405437 Retailer State: Michigan Chemicals of concern: PVC components (>50% chlorine), trichlorophenyl phosphate (TCPP) flame retardant, 38%(381,869 ppm) lead in solder

SUPERMAN HEADPHONES

Retailer: Five Below Brand/Distributor: Sakar UPC: 2133180826 Retailer State: Michigan Chemicals of concern: PVC components (>50% chlorine), Ortho Phthalate plasticizer, trichlorophenyl phosphate (TCPP) flame retardant, 61% (612,081 ppm) lead in solder





DISCO COLOR CHANGING BATH LIGHT

Retailer: Five Below Brand/Distributor: Xtreme Tech, JemAccessories UPC: 0510622354 Retailer State: Michigan Chemicals of concern: Ortho Phthalate plasticizer, 45.6% (456,455 ppm) lead in solder



CAMPBELL'S CHICKEN & STAR SHAPE PASTA

Retailer: Five Below Brand/Distributor: Campbell's UPC: 5100015076 Chemicals of concern: PVC copolymer can coating



PURCHASE RECEIPTS

Retailer: Five Below UPC: N/A Retailer State: Multiple Chemicals of concern: All receipts tested positive for Bisphenol S

| five BEL | w |
|--|---------|
| 01111 MUELLER TX 1201 BARBARA JORDAN BLVD AUSTIN, TX 78723 512-480-2292 SALE | |
| 192234062425 DESCNUT AUX MIC SPKR | \$5.00T |
| 719565426667 FROZEN TIARA HAIR SE | \$1.621 |
| 1 0 \$1.62 192234000595 BF18 WATERBOTTLE | \$5.00T |
| 1 @ \$5.00 011179874330 54X84 RNBW UNICORN T 1 # \$2.00 | \$2.00T |
| 064144047093 BEEF RAVIOLI 1 @ \$1.25 | \$1.257 |
| Subtota] | \$14.87 |
| Sales Tax 8.250% | \$1.12 |
| Sales Tax 0.000% | \$0.00 |
| Total | \$15.99 |
| MasterPard | ALT 00 |



DOLLAR TREE & FAMILY DOLLAR PRODUCT HIGHLIGHTS

COOKING CONCEPTS PIZZA PAN

Retailer: Dollar Tree Brand/Distributor: Cooking Concepts UPC: 3927715283 Retailer State: Michigan Chemicals of concern: BPA-based epoxy based non-stick coating



COOKING CONCEPTS CAKE PAN

Retailer: Dollar Tree Brand/Distributor: Cooking Concepts UPC: 3927715283 Retailer State: Michigan Chemicals of concern: BPA-based epoxy based non-stick coating

FAMILY CHEF 10-INCH FRY PAN NON-STICK

Retailer: Family Dollar Brand/Distributor: Family Chef UPC: 32251294525 Retailer State: Michigan Chemicals of concern: PTFE (PFAS) based nonstick coating





FUNNY TEETH

Retailer: Dollar Tree Brand/Distributor: Joking Around, Green-brier International, Inc. UPC: 3927772533 Retailer State: Ontario, Canada Chemicals of concern: PVC components (>50% chlorine), DOTP plasticizer.



KIDS MUSICAL TOY CAR

Retailer: Dollar Tree Brand/Distributor: Kidgets, Midwood Brands, LLC UPC: 3225157309 Retailer State: Texas Chemicals of concern: 17.4% (174,000 ppm) lead in solder



VIVITAR KIDSAFE STEREO HEADPHONES

Retailer: Family Dollar Brand/Distributor: Vivitar, Skar International UPC: 8106648531 Retailer State: Texas Chemicals of concern: 2.2% lead (22,000 ppm) in solder; PVC cable insulation and coated fabrics with DOTP plasticizers



AUDIO CABLE WITH CARRYING CASE

Retailer: Dollar Tree Brand/Distributor: Greenbrier International UPC: 3927789219 Retailer State: Michigan Chemicals of concern: PVC components (>50% chlorine), Ortho Phthalate and DOTP plasticizers



EARBUDS

Retailer: Dollar Tree Brand/Distributor: E-circuit, Greenbrier International, Inc. UPC: 3927755468 Retailer State: Michigan Chemicals of concern: PVC components (>50% chlorine), DOTP plasticizer, 14.1% (141,000 ppm lead in solder

POP WEAVER BUTTER MICROWAVE POPCORN

Retailer: Dollar Tree Brand/Distributor: Pop Weaver UPC: 4166702929 Retailer State: Texas Chemicals of concern: 353 ppm Total Fluoring (PFAS grease-proof coating present)





DOLLY MIXED VEGETABLES

Retailer: Dollar Tree Brand/Distributor: Dolly UPC: 3913957419 Chemicals of concern: BPA-based epoxy



DEERFIELD MIXED VEGETABLE

Retailer: Dollar Tree Brand/Distributor: Deerfield UPC: 5306900571 Chemicals of concern: BPA-based epoxy



PURCHASE RECEIPTS

Retailer: Dollar Tree and Family Dollar UPC: N/A Retailer State: Multiple Chemicals of concern: All receipts tested positive for Bisphenol S

| Stores 1217 4982 E Kings Canyon Rd Fresna CA 93727-3896 | (559) 550- | | 5 E . | | | | |
|---|---|--------------------------------------|---|--|--|--|--|
| DESCRIPTION | QTY | PRICE | TOTAL | | | | |
| PL 3902 BOTTLE BLK IRI SIPPER NUG 14.52 ASTD STAX ORIGINAL 5.752 T50 TIC TAC FRESHNINT KIDS COLD PACK | DESCENT 1 | 1.00 1.00 1.00 1.00 1.00 | 1.00T 1.00T 1.00N 1.00N 1.00N | | | | |
| | Sub Total General Exem Sales Tax Total Cash | | 5.00 0.00 0.24 5.24 6.00 | | | | |
| | CHANGE ====> | \$ | -0.76 | | | | |
| NOW SHOP ON-LINE AT DOLLARTREE.COM | | | | | | | |
| | exchange any uno eipt. We do not | pened item offer refu | * inds. * | | | | |
| 5769 01217 01 001 2651 Sales Associate: Johnet | 6818 2/22/21 | 13:58 | | | | | |



DOLLAR GENERAL PRODUCT HIGHLIGHTS

ORVILLE REDENBACHER'S POPCORN

Retailer: Dollar General Retailer State: California Chemicals of concern: 625 PPM Total Fluorine (PFAS grease-proof coating present)



TRUE LIVING 9 IN. ROUND CAKE PAN

Retailer: Dollar General UPC: 7286701468 Retailer State: Michigan Chemicals of concern: PTFE (PFAS Fluo-ropolymer) + PES (Polyethersulfone)



WACKY LIPS

Retailer: Dollar General UPC: 7565601355 Retailer State: California Chemicals of concern: PVC (>50% chlorine), DOTP Plasticizer



CLOVER VALLEY SHREDDED WHITE CHICKEN

Retailer: Dollar General Brand/Distributor: Clover Valley, Old East Main Co. UPC: 1972216724 Retailer State: California Chemicals of concern: PVC copolymer coating on interior of the can



EVOLUTION NON-STICK FRY PAN SET

Retailer: Dollar General UPC: 635928028104 Retailer State: Michigan Chemicals of concern: BPA-based Epoxy Coating



PURCHASE RECEIPTS

Retailer: Dollar General UPC: N/A Retailer State: California Chemicals of concern: All receipts tested positive for Bisphenol S

| DOLLAR GENERAL STORE #1 167 LISBON STREET LISBON, ME 04250-602 (207) 295-7765 | |
|---|--|
| BOUNCE BALLS ASTD 011179355662-140 PINATA FILLER 011179360314-140 TABLE COVER PRIMARY 011179348633-140 SY21-RS-CHOCKER 5PK 430001413019-340 CV SHREDDED CHICKEN E 019722167243-111 | 3.00 S 4.00 S 2.00 S 3.00 S 1.95 |
| SUBTOTAL Tax1 TOTAL SALE US DEBIT PIN VERIFIED | \$13.95 \$0.66 \$14.61 \$14.61 |



99 CENTS ONLY STORES PRODUCT HIGHLIGHTS

NOISE REDUCING COLOR EARBUDS

Retailer: 99 Cents Only Stores Brand/Distributor: Momentum Brands UPC: 7641611875 Retailer State: California Chemicals of concern: PVC components (>50% chlorine), Ortho Phthalate plasticizer, 18.3% (183,000 ppm) lead in solder



ACT II, BUTTER LOVER MICROWAVE POPCORN

Retailer: 99 Cents Only Stores Brand/Distributor: Act II UPC: 7615023258 Retailer State: California Chemicals of concern: 473 ppm Total Fluorine (PFAS grease-proof coating present)

Summer is Inside Tomato Paste

Retailer: 99 Cents Only Stores Brand/Distributor: Summer is Inside UPC: 7393415078 Retailer State: California Chemicals of concern: PVC copolymer can coating





POLAR CANNED SARDINES

Retailer: 99 Cents Only Stores Brand/Distributor: MW Polar Foods UPC: 7402700167 Retailer State: California Chemicals of concern: BPA-based epoxy can coating



LIBBY'S CHICKEN VIENNA SAUSAGE

Retailer: 99 Cents Only Stores Brand/Distributor: Libby's UPC: 3900008669 Retailer State: California Chemicals of concern: PVC copolymer can coating



PURCHASE RECEIPTS

Retailer: 99 Cents Only Stores UPC: N/A Retailer State: Multiple Chemicals of concern: All receipts tested positive for Bisphenol S

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| Babies2GrowPrintedZippyCupNS# | 1 | 0 | . 9999 | 0.9999 T |
| ActIIMcru wPopernBttrLover8.2 | 1 | 4 | .9999 | 0.9999 |
| SensoryBe 1s4pkRC050150 | 1 | | 1.99 | 1.9900 T |
| Bebles20r/3pkBottle9ozAstd#74 | 1 | 1 | 2.99 | 2.9900 T |
| CheteRefr edPintoBuens15.2024 | 1 | 0 | , 9999 | 0.9999 |
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CAMPAIGN FOR HEALTHIER SOLUTIONS ANCHOR GROUPS

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AFFILIATES AND PARTNER ORGANIZATIONS

Physicians for Social Responsibility-LA – Los Angeles, California Learning Disabilities Association of Maine – Windham, Maine Environmental Defence Canada –Toronto, Canada Clean Production Action

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