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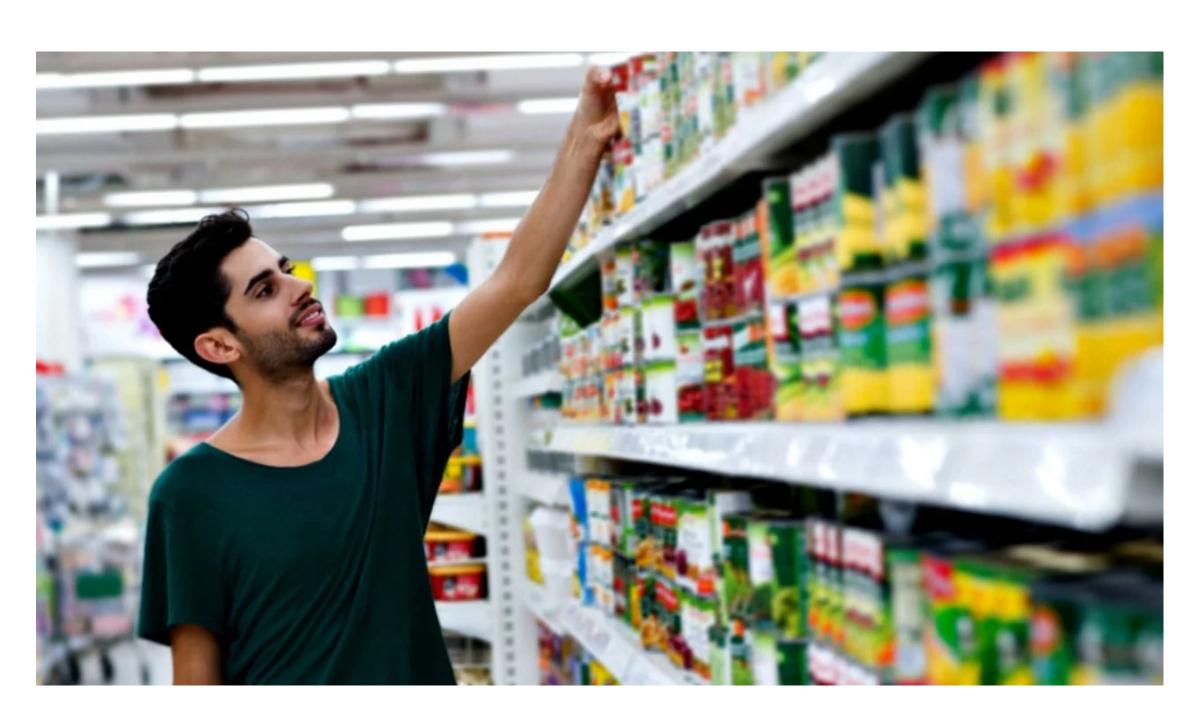
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BPA Update: Tracking the Canned Food Phaseout



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on bisphenol A, or BPA, making food the primary route of our exposure to this toxic chemical. A robust body of scientific studies shows BPA readily migrates from cans into food and that very small levels are harmful to neurological, cardiovascular, reproductive, endocrine and other biological systems. Pushed by consumer concern, manufacturers have moved to replace BPA with alternative

For decades, most canned food manufacturers used can linings made of epoxy resin based

chemicals. According to the Can Manufacturers Institute , today about 95 percent of food cans are made without BPA-based linings, using a variety of other coatings, or polymers. The trade group says linings are now typically made from non-BPA acrylic or polyester epoxies, or olefin polymers . But it's unclear whether this vague list includes all alternatives in use – and more importantly, whether they're safer than BPA. Studies by the National Toxicology Program and other researchers have identified the

potential health impacts of some possible replacement chemicals but don't say whether

those alternatives have been commercially adopted. The studies also don't report one-to-

one substitutions of BPA for other bisphenol chemicals, such as BPS, which is widely used

to coat receipt paper and which can disrupt hormones. Biomonitoring data analyzed by

academic researchers and government agencies show decreases in human exposure to BPA, and increases in exposure to other bisphenols, but again, can't say whether that trend is due to replacement of BPA in cans with other bisphenols. In 2015, EWG published results of a survey of canned foods, revealing limited information on BPA substitutes. Since then, other public health groups have tried to pinpoint where BPA is still being used and the specific replacement chemicals.

A 2016 investigation by six nonprofit groups [i] – "Buyer Beware: Toxic BPA and regrettable substitutes in the linings of canned food" – analyzed nearly 200 food cans purchased at locations across the U.S. and Canada. Analysis with an infrared spectrometer identified BPA-based epoxy resins in 67 percent of the samples. The tests also identified four major alternative coating types: acrylic resins, oleoresins, polyester resins, and PVC, or polyvinyl chloride-based, resins. Many cans contained a combination of these coating

materials.

In 2017, the Center for Environmental Health, or CEH, also used infrared spectroscopy to test of more than 250 canned foods from across the nation for BPA. CEH also found the chemical was still commonplace, with 38 percent of the cans containing BPA-based linings. What's more, CEH's second round of testing of found a huge disparity in foods purchased in ethnic grocery stores, with BPA in more than 90 percent of can linings. But by 2019, follow-up tests of found that 96 percent of all cans were BPA-free.

To make can coatings effective barriers between the food and the metal, polymers of

But concerns remain, because too much information about the substitutes is hidden.

different chains and chemistries are cross-linked together. Cross-linker agents commonly include formaldehyde, a known human carcinogen, but these agents don't have to be disclosed - nor do other additives or production materials. In fact, the Food and Drug Administration doesn't require anything about the linings to be labeled, even though a percentage of chemicals in the coatings can contaminate the food. How do the hazards of the major alternatives stack up?

polystyrene, which is derived from styrene, a possible human carcinogen and endocrine disruptor.

· Polyesters may have less potential for direct human harm than other alternatives. However, this group of chemicals is toxic to aquatic life and can persist in the environment for many years.

• Acrylic resins have biodegradability and environmental toxicity concerns. Thirty-nine

percent of the acrylic linings detected in the Buyer Beware investigation included

• PVC is a notoriously toxic chemical created from vinyl chloride, a known human carcinogen. The Buyer Beware coalition and CEH both found PVC-based resin was a popular alternative, discovering it in 25 percent and 19 percent of the cans, respectively.

• Whole or partially plant-based oleoresins are commonly derived from trees and are

Limit Your Exposure to BPA and Its Regrettable Substitutes Until we can be sure that all manufacturers have transitioned away from BPA-based linings

and that alternatives have been thoroughly assessed for safety, be wary of purchasing

often marketed as safer options. However, little is publicly known about how oleoresin

Some manufacturers label their cans "BPA free" but most don't disclose the replacement chemicals. Even when they do, the complete lining composition is typically withheld. Can lining formulas may contain a dozen or more different chemicals among the array of food **contact materials** □ granted for use by the FDA.

supply chain to publish the results of private safety and exposure assessments for substitutes. Tips for Avoiding BPA and Toxic Alternatives

We call on food companies and retailers to label the complete set of chemicals in their

linings. They should also work with coating suppliers and the rest of the canned food

• When choosing canned goods, contact the company to ask whether it still uses BPA. If not, ask for details about the replacement – what it is, its safety profile and when the switch was made. Every can is stamped with a code that corresponds to its production

sprays, tins of cooking oil and aluminum beverage cans.

Chemicals, Healthy Families' Mind the Store campaign.

mixtures are typically formulated.

canned foods.

after the BPA phaseout. • Avoid canned beverages, as it is unclear how widely they still use BPA. · Whenever possible, substitute fresh, frozen or dried food for canned. • Limit how many packaged and processed foods you eat, in general. BPA may be found in more than just canned foods – for instance, in the lids of foods and beverages packaged in glass jars and bottles, aerosol cans for whipped toppings and nonstick

date. Ask the company which codes indicate that a canned item was manufactured

their decision not to provide a warning. [i] Breast Cancer Prevention Partners, Campaign for Healthier Solutions, Clean Production Action; Ecology Center, Environmental Defence (Canada) and Safer

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• In California, look for **Proposition 65** warnings indicating the possible presence of

products that contain BPA at concentrations above a "safe harbor level" or to justify

BPA. Companies are required to provide either label or shelf sign warnings for

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