





Lynn Dyer 2019 IMFA Seminar March 8, 2019



ABOUT FPI

- Established in 1933
- Only industry trade association in North America solely focused on all single-use foodservice packaging products
 - Used by foodservice establishments for prepared foods and beverages
- Members include:
 - Converters and their raw material and machinery suppliers (approximately 90% of the industry);
 - Foodservice distributors and operators

PFAS 101



WHAT ARE PFAS?

- PFAS = Per- and Polyfluoroalkyl Substances
- Class of over 3,000 chemicals containing at least one fully fluorinated carbon atom, all with very different properties in different applications





PFAS APPLICATIONS

- Non-stick cookware and small appliances
- Repeat-use food contact applications (e.g. tubing and hoses in soda and ice cream dispensers)
- Components of food processing equipment (e.g. gaskets, sealants and filters)
- Food wrappers
- Paper/molded fiber service ware and take-out food containers
- Food boxes (e.g., pizza boxes)
- Microwavable bags (e.g., popcorn)
- Pet food containers





PFAS IN FOODSERVICE PACKAGING

 Purpose: Prevents oil and grease from seeping through food packaging materials and onto clothing, skin, furniture, car interiors, etc.





SUB CATEGORIES OF PFAS USED IN FSP

- "Long chain" or "C8" chemicals, since they have 8 or more carbons in their structure
 - Perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS) are two examples
 - These were NEVER used in food packaging
 - These were voluntarily phased out and are no longer allowed in the U.S. and Canada, but still allowed in other countries



SUB CATEGORIES OF PFAS USED IN FSP

- "Short chain" or "C6" chemicals, since they have 6 or less carbons in their structure
 - Manufacturers of these newer chemicals submit their specific formulations to regulatory agencies for rigorous review and, if found to be safe for their intended use, may be used
 - Are approved by FDA and Health Canada,
 plus many other regulatory agencies around

THE NGO MOVEMENT



NGOS FOCUS ON FOOD PACKAGING



Purchasing Safer Compostable Food Service Ware

HOW TO AVOID FLUORINATED CHEMICALS

Toxic Wrappers: The Unappetizing Truth About Fast Food Packaging



What are highly fluorinated

Highly fluorinated chemicals, in a wide range of consumer p waxes, nonstick cookware, gr chemicals from direct contact







Avoiding Hidden Hazards
A Purchaser's Guide to Safer Foodware











June 27, 2018

Re: Toxic Chemicals in Food from Processing, Packaging, and Preparation

We represent millions of American consumers who share the growing scientific concern about food safety and chemical hazards. Increasingly, toxic industrial chemicals such as *ortho*-phthalates and per- and polyfluoroalkyl substances (PFAS) used in food processing, packaging, and preparation are being found in America's favorite brands of food products. Unfortunately, the U.S. Food and Drug Administration (FDA) lacks the mandate, budget, and political will to modernize our broken chemical safety system to protect the health of your customers, especially pregnant women and children.



ALTERNATIVES TO PFAS-COATED FOOD PACKAGING





FALLACIES IN THE NGO CAMPAIGNS

- Treating all PFAS chemicals the same
 - No distinction between PFAS not used in food packaging (like PFOA and PFOS) to PFAS used today in food packaging
- Questioning the validity of the FDA approval process, which is one of the most stringent in the world





FPI'S ACTIONS TO NGO CAMPAIGNS

- Following reports in 2017 and 2018:
 - Coordinated with FluoroCouncil
 - Developed one-pager on PFAS (found on www.fpi.org); updated in 2018
 - Provided many media interviews, including appearance on Dr. Oz
 - Met with NGOs and other stakeholders at inperson meetings in 2017 and again in 2018



- At the Federal Level
 - U.S.:
 - EPA just released PFAS Action Plan, focused more on limits in drinking water and groundwater cleanup
 - FDA began reviewing C6; in April 2018, indicated they would be conducting own testing and agreed to share testing protocols with industry for feedback
 - Increased activity in Congress, mainly around PFAS in drinking water





- At the Federal Level
 - Canada:
 - Health Canada has released Canadian Drinking Water Guidelines for PFOS and PFOA, but not for other PFAS
 - Also, no guidelines available for PFAS in soil





- At the State/Provincial Level
 - Washington:
 - Passed law requiring alternatives assessment for PFAS in food packaging by 2020, followed by ban if alternatives identified starting in 2022
 - Developing Chemical Action Plan for all PFAS (draft to be published in May/June 2019)





- At the State/Provincial Level (con't)
 - California:
 - Bill requiring labeling of food packaging containing PFAS not approved in 2018
 - Interest from Department of Toxic Substances Control
 - Prop 65 listing of PFOA/PFOS November 10, 2018 warning requirements
 - No threshold identified yet





- At the State/Provincial Level (con't)
 - Minnesota and New York:
 - Approved state purchasing specifications that prohibit FSP with intentionally-added PFAS
 - Bills introduced in CA, CT, IA, MA, ME, NJ,
 NY, RI, VT, WA
 - Nothing in Canada (so far)





- At the Local Level
 - Bans on PFAS-containing compostable FSP starting January 1, 2020 in:
 - San Francisco, CA
 - Berkeley, CA
 - Nothing in Canada (yet)





- Biodegradable Products Institute
 - Effective January 1, 2020, BPI will not certify products, and products may not be marketed as "BPI Certified," that contain over 100 ppm total fluorine
 - Option is to not get BPI certification, BUT...





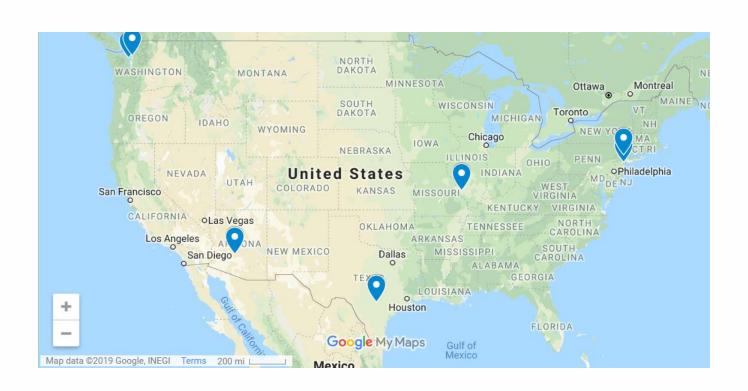
- Compost Manufacturing Alliance
 - Effective January 1, 2020, CMA facilities will not accept products for field testing or substrate review that contain over 100 ppm total fluorine
 - CMA facilities represent roughly one quarter to a third of all composters in the U.S. that accept compostable FSP





PFAS AND COMPOSTING

CMA Facilities



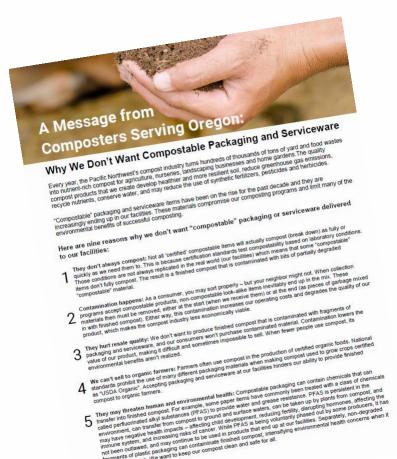




MEMBER MEETING ON PFAS ISSUES

PFAS AND COMPOSTING

immune system, and increasing risks of cancer. While PFAS is being voluntarily phased out by some producers, it has not been outlawed, and may continue to be used in products that end up at our facilities. Separately, non-degraded regiments of plastic packaging can contaminate finished compost, intensifying environmental health concerns when it is used by buyers. We want to keep our compost clean and safe for all.



 It increases our costs and makes our job harder: Some of us have accepted compostable packaging in the past, and spending additional resources to produce finished compost. Some types of compostable packaging in the past, degrade into carbon dioxide and water and leave behind little of value for all of the extra effort required. Just because something is compostable doesn't mean it's better for the environment. Oregon DEQ has found sample, compostable serviceware often has a larger (life time) environmental footprint han non-compostable many require more loss all environmental footprint han non-compostable items, and the inno-compostable tems, mostly due, release more greenhosted leaves or result in confirms what scientists all what non-compostable event-prints, mostly due, release more greenhosted leaves, or result in Composting han whether they're composted what materials are made of and from they're made. The research composting is a beneficial treatment option for organic wastes, but "compostable" are not the same idea. agnificant than whether they're composted vs. landfilled. "Composting" and "compostable" are not the same idea. Composting is a beneficial treatment option for organic wastes, but "compostable" is not a guarantee of low impact. In some cases, the benefits of recycling surpass those of composting. Some items, like paper bags, can be either conjugated or recycled. Generally speaking, the recycling of manufactured materials (such as packaging can provide greater overall environmental benefits than composting does. Good intentions aren't being realized. Compostable items often cost more – sometimes up to five times as much as money that could be spent in more productive and beneficial ways. Not only do compostable products often cost more to purchase, they also drive up the costs to operate our facilities and impede our ability to sell finished compost. Compostable packaging is promoted as a means of achieving "zero tecovered materials," Reusable dishware is almost always a better choice for the environment. If you must you make your process. waster goals but it burdens composters (and recyclers) with materials that harm our ability to enciently process recovered materials. Reusable dishware is almost always a better choice for the environment. If you must use We need to focus on recycling organic wastes, such as food and yard trimmings, into high-quality compost products that can be used with Confidence to restore soils and conserve resources. Compostable packaging doesn't help us to Please help us protect the environment and create high quality compost products by keeping "compostable" packaging and serviceware out of the compost bin. Recolog REPUBLIC SERVICES Pacific Region Compost WASTE PRO







- A few comments on testing...
 - There is no one defined test method
 - The presence of fluorine does not mean the presence of PFAS, and certainly doesn't show type of PFAS
 - 100 ppm is in line with European standards, and some stakeholders seem to be in agreement with this threshold for "intentionally added"

PFAS ALTERNATIVES



PFAS ALTERNATIVES

- Replace with other materials
 - Rigid plastic
 - Other non-PFAS containing paper
 - Aluminum foil
- Apply [compostable] coating
 - PLA
 - Other?
- Non-PFAS wet end additive for pulp
- Reusables





QUESTIONS?

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