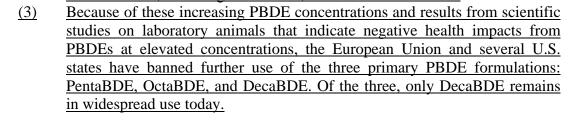
GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2009

H HOUSE BILL 823*

Short Title:	Limit Toxic Flame Retardants Containing PBDEs. (Pub	blic)
Sponsors:	Representatives Harrison, Glazier, England, Burris-Floyd (Primary Sponsors); M. Alexander, Bordsen, Bryant, Cotham, Farmer-Butterfield, Fisher, Goodwin, Harrell, Hughes, Insko, Jackson, Jeffus, Jones, Justice, Lucas, Mackey, Martin, Underhill, Weiss, and Womble.	
Referred to:	Environment and Natural Resources, if favorable, Commerce, Small Business, and Entrepreneurship, if favorable, Finance.	

March 30, 2009 1 A BILL TO BE ENTITLED 2 AN ACT RELATING TO ADVANCING FIRE SAFETY WHILE PROTECTING INFANTS. 3 CHILDREN. AND OTHERS FROM BROMINATED FLAME RETARDANT IN 4 PRODUCTS FOR SALE AND TO CREATE A TAX INCENTIVE FOR 5 MANUFACTURERS TO DEVELOP ALTERNATIVE PRODUCT DESIGNS WITHOUT 6 CERTAIN CHEMICAL FLAME RETARDANTS FOR FIRE SAFETY STANDARDS. The General Assembly of North Carolina enacts: 7 8 **SECTION 1.** Chapter 130A of the General Statues is amended by adding a new 9 Article to read: 10 "Article 19B. "Flame Retardants Containing PBDEs. 11 12 "§ 130A-453.30. Legislative findings; purpose. 13 The General Assembly finds all of the following: (a) Polybrominated Diphenyl Ethers (PBDEs) are a class of highly efficient 14 (1) brominated flame retardant. Since PBDEs were introduced in the 1960s, 15 16 PBDE concentrations in human tissue have increased exponentially, with concentrations doubling every three to five years. PBDE concentrations in 17 the general population of the United States are the highest in the world. 18 19 PBDEs have been found in wildlife including fish, birds, and seals in the **(2)** 20 Arctic. PBDEs are present in food consumed by people, especially fish, meat, and dairy products. In the environment, higher concentrations of 21 22 PBDEs have been found in sediments, sewage sludge, and house dust. PBDEs have also been detected in surface waters in North Carolina. 23 24 Scientific research indicates the concentrations of PBDEs are increasing in



human tissues, including breast milk, and in the environment.



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Genera	l Assem	bly of North Carolina Session 2009
	<u>(4)</u>	Exposure to PBDEs has been linked to damage of the immune system,
		reproductive system, thyroid function, and sperm production. Exposures to
		high levels of PBDEs have produced cancer in laboratory animals.
		DecaBDE has been found to cause developmental neurotoxicity effects in
		laboratory animals. Breast-feeding infants have the highest exposure to
		DecaBDE.
	<u>(5)</u>	Effective alternatives for achieving flame retardancy appear to be available
		for most current DecaBDE applications.
<u>(b)</u>	The p	purpose of this Article is to protect the public health and the environment from
romina	ited flan	ne retardants, as well as to encourage the availability to manufacturers of
	_	nd design advances so that nonchemical alternatives to brominated flame
		ne increasingly available for use in products.
		. Definitions.
<u>As u</u>	ised in th	nis Article, the following definitions apply:
	<u>(1)</u>	Brominated flame retardant. – Any chemical containing the element bromine
		that is added to plastic, foam, or textile to inhibit flame formation.
	<u>(2)</u>	<u>Congener. – A specific PBDE molecule.</u>
	<u>(3)</u>	Flame retardant. – Any chemical that is added to a plastic, foam, textile, or
		other material to inhibit flame formation.
	<u>(4)</u>	Manufacturer. – Any person or enterprise that manufactures a final product
		containing a regulated brominated flame retardant or any person or
		enterprise whose brand name is affixed to a product containing a regulated

- brominated flame retardant.
 DecaBDE. Decabromo diphenyl ether or any commercial or technical mixture in which decabromo diphenyl ether is a significant congener.
- (6) OctaBDE. Octabromo diphenyl ether or any commercial or technical mixture in which octabromo diphenyl ether is a significant congener.
- (7) PentaBDE. Pentabromo diphenyl ether or any commercial or technical mixture in which pentabromo diphenyl ether is a significant congener.
- (8) PBDE. Polybrominated diphenyl ether.
- (9) Significant. Any congener of a PBDE mixture greater than four percent (4%).

"§ 130A-453.32. Sale or distribution of brominated flame retardants prohibited.

- (a) A person shall not in North Carolina manufacture, sell, offer for sale, distribute for sale, or distribute for promotional purposes a product containing more than 50 parts per million of OctaBDE or PentaBDE.
- (b) A person shall not in North Carolina manufacture, sell, offer for sale, distribute for sale, or use any of the following products containing DecaBDE:
 - (1) A mattress, mattress pad, or any other type of mattress cover or mattress top.
 - (2) <u>Upholstered furniture intended for indoor use in a home or other residential occupancy.</u>
 - (3) Electronic devices with a plastic housing containing DecaBDE.
- (c) This section does not apply to the sale of used products. Subsection (b) of this section does not apply to the manufacture, sale, repair, distribution, maintenance, refurbishment, or modification of equipment used primarily for military applications. Further, all of the following products that contain DecaBDE are exempt from the requirements of subsection (b) of this section:
 - (1) Motor vehicles and aircraft, or products or parts for use in motor vehicles, aircraft, or transportation equipment.
 - (2) Products or equipment used in industrial or manufacturing processes.
 - (3) Electronic wiring and cable used for power transmission.

- (d) In any of the products under subsection (a) or (b) of this section, no manufacturers shall replace DecaBDE with any chemicals of similar concern due to their toxicity, bioaccumulation, persistence, or long-range transport as listed in both:
 - (1) The United States Environmental Protection Agency Toxic Release Inventory List of Persistent, Bioaccumulative, and Toxic Chemicals.
 - (2) The state of Washington's List of Persistent, Bioaccumulative, and Toxic Chemicals.

"§ 130A-453.33. Interagency committee on fire safety.

A committee on fire safety is established for the purpose of assisting with the implementation of this Article. This committee shall include:

- (1) The State Fire Marshal or the State Fire Marshal's designee;
- (2) The State Health Director or the State Health Director's designee;
- (3) The Secretary of Environment and Natural Resources or that Secretary's designee;
- (4) An expert on human and ecological effects of brominated flame retardants from the Duke University Nicholas School of the Environment, to be selected by the Secretary of Environment and Natural Resources;
- (5) An expert on fire safety design from the Fire & Life Safety Program at North Carolina State University, to be selected by the Secretary of Environment and Natural Resources.

"§ 130A-453.34. Additional exemptions.

- (a) The Secretary of Environment and Natural Resources may grant an exemption to any provisions of this Article for a term not to exceed two years. The exemption shall be renewable upon written application if the specific use of commercial PBDE continues to meet the criteria of this section and the manufacturer or other persons comply with the conditions of its original approval. The Secretary of Environment and Natural Resources may grant an exemption for a specific use of PBDE with or without conditions, upon finding that the applicant has demonstrated any one or more of the following:
 - (1) A technically feasible alternative is not available at reasonable cost.
 - (2) The potential harm to public health and the environment directly posed by a technically feasible alternative is greater than the potential harm caused by commercial PBDE.
- (b) A fee to apply for an exemption under this section shall be imposed and shall be paid to the Department of Environment and Natural Resources. This fee shall not exceed five thousand dollars (\$5,000). Fees collected under this subsection shall be used by the Secretary of Environment and Natural Resources for the costs to administer this Article.

"§ 130A-453.35. Labeling; positive recognition for manufacturers.

The Secretary of Environment and Natural Resources may establish a "Meets fire safety standards without the use of chemical flame retardants" product-labeling program for products that meet fire safety standards and do not contain chemical flame retardants. The Secretary of Environment and Natural Resources may establish partnerships with manufacturers to enhance the market for products designed to retard fire without the use of chemical flame retardants and reduce the use of potentially hazardous flame retardants in products. The Secretary of Environment and Natural Resources may develop an awards program in conjunction with the Environmental Stewardship Initiative Program to recognize the accomplishments of North Carolina manufacturers who exceed the requirements of this Article and who excel at reducing or eliminating chemical flame retardants in products and the environment.

"§ 130A-453.36. Transition to design for fire prevention.

North Carolina manufacturers who develop alternative product designs in order to meet fire safety standards while removing chemical flame retardants from their products are eligible for a tax credit on a percentage of their research and development expenses under G.S. 105-129.56.

"§ 130A-453.37. Outreach and education; multistate clearinghouse.

- (a) The Secretary of Environment and Natural Resources shall develop a program to inform and educate retailers regarding the requirements of this Article and methods for identifying products that contain DecaBDE, OctaBDE, or PentaBDE.
- (b) The Secretary of Environment and Natural Resources may participate in the establishment and implementation of a regional, multistate clearinghouse to do all of the following:
 - (1) Assist in the implementation of the requirements of this section.
 - (2) Help coordinate public education and outreach activities.
 - (3) Review risk assessments.
 - (4) Review alternatives to DecaBDE, OctaBDE, or PentaBDE.
 - (5) Implement other activities related to the administration of this Article.

"§ 130A-453.38. Report requirement.

No later than January 15 every other year, the Commission shall report to the Environmental Review Commission and the General Assembly regarding the regulation of brominated flame retardants in the State, in other states, and nationally. The report shall include recommended additional actions to protect the public health and the environment from brominated flame retardants, as well as the availability to manufacturers of technological and design advances, and nonchemical alternatives to brominated flame retardants. This report shall consider whether the provisions of this Article are accomplishing the purposes of this Article.

"§ 130A-453.39. Certificate of compliance; injunctive relief and civil penalties.

- (a) If the Secretary of Environment and Natural Resources reasonably suspects that a product containing a regulated brominated flame retardant is being manufactured, sold, offered for sale, or distributed for sale in violation of this Article, the Secretary of Environment and Natural Resources may request the manufacturer of the product to provide the Secretary of Environment and Natural Resources with a certificate of compliance. Within 10 days of receipt of the request for a certificate of compliance, the manufacturer shall do at least one of the following:
 - (1) Provide the Secretary of Environment and Natural Resources with a certificate declaring that the product complies with the requirements of this Article.
 - (2) Notify persons that sell the manufacturer's product in the State that the sale of the product is prohibited and submit to the Secretary of Environment and Natural Resources a list of the names and addresses of those notified.
- (b) If a manufacturer fails to comply with the requirements under this Article, the Secretary of Environment and Natural Resources may take enforcement action against the product manufacturer by assessing civil penalties under subsection (c) of this section or requesting the Attorney General to initiate immediate injunction proceedings to prevent the sale of the product, or both.
- (c) Subject to subsections (d) and (e) of this section, a person who violates this Article is subject to the following civil penalties:
 - (1) If the violation is the person's first offense under this Article, a civil fine of not more than one hundred dollars (\$100.00) per item, not to exceed five thousand dollars (\$5,000) total.
 - (2) If the violation is the person's second offense under this Article, a civil penalty of not more than five hundred dollars (\$500.00) per item, not to exceed a total of twenty-five thousand dollars (\$25,000).
 - (3) If the violation is the person's third or subsequent offense under this Article, a civil penalty of not more than one thousand dollars (\$1,000) per item, not to exceed a total of fifty thousand dollars (\$50,000).

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- (d) If a person knowingly violates this Article, the person is subject to a civil penalty equal to three times the amount of the penalty under subdivision (3) of subsection (c) of this section.
- (e) A civil fine imposed under this section shall be waived if it is determined that a person acted in good faith to be in compliance with this Article, pursued compliance with due diligence, and promptly corrected any noncompliance after discovery of the violation.
- (f) As used in this section, 'manufacturer' means any person who manufactured the final product or whose brand name is affixed to the product and includes, in the case of a product that was imported into the United States, the importer or domestic distributor of the product when the person who manufactured or assembled the product, or whose brand name is affixed to the product, does not have a presence in the United States.

"<u>§ 130A-453.40. Rule making.</u>

- (a) The Secretary of Environment and Natural Resources may adopt rules to implement this Article.
- (b) The Secretary of Environment and Natural Resources may adopt rules regulating the manufacture, use, sale, or distribution of any additional halogenated flame retardant if the Commission determines that the halogenated flame retardant is harmful to public health and the environment, and that safer alternatives are available."

SECTION 2. G.S. 105-129.50 reads as rewritten:

"§ 105-129.50. (See note for effective date and repeal) Definitions.

The definitions in section 41 of the Code apply in this Article. In addition, the following definitions apply in this Article:

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- Qualified flame-retardant research expenses. Any amount the taxpayer paid or incurred for research performed in this State for the purpose of producing a product design that meets the standards established in G.S. 130A-453.32 for use of polybrominated diphenyl ether and is free of all other chemicals listed in sections 302 and 313 of the Emergency Planning and Community Right-to-Know Act, as codified at 42 U.S.C. §§ 11001-11050.
- (6)(6a) Qualified North Carolina research expenses. Qualified research expenses, other than North Carolina university research expenses, for research performed in this State.

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SECTION 3. Article 3F of Chapter 105 of the General Statutes is amended by adding a new section to read:

"§ 105-129.56. Credit for nonchemical flame-retardant product research and development.

- (a) Credit. A taxpayer that has qualified flame-retardant research expenses for the taxable year is allowed a credit equal to a percentage of the expenses, determined as provided in this section. Only one credit is allowed under this subsection with respect to the same expenses. If more than one subdivision of this subsection applies to the same expenses, then the credit is equal to the higher percentage, not both percentages combined. If part of the taxpayer's qualified flame-retardant research expenses qualifies under subdivision (2) of this subsection and the remainder qualifies under subdivision (3) of this subsection, the applicable percentages apply separately to each part of the expenses.
 - (1) Small business. If the taxpayer was a small business as of the last day of the taxable year, the applicable percentage is three and seventy-five one hundredths percent (3.75%).

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1	<u>(2)</u>	Low-tier research For expenses with respect to research performed in a
2		development tier one area, the applicable percentage is three and seventy-
3		five one hundredths percent (3.75%).
4	<u>(3)</u>	Other research. – For expenses not covered under subdivision (1) or (2) of
5		this subsection, the percentages provided in the table below apply to the
6		taxpayer's qualified North Carolina research expenses during the taxable
7		year at the following levels:

Expenses Over	Up To	Rate	
<u>-0-</u>	\$50,000,000	1.75%	
\$50,000,000	\$200,000,000	<u>2.75%</u>	
\$200,000,000	_	3.75%."	

SECTION 4. The initial report under G.S. 130A-453-38, as enacted by Section 1 of this act, is due no later than January 15, 2010.

SECTION 5. G.S. 130A-453.32(b), as enacted by Section 1 of this act, becomes effective October 1, 2010, and G.S. 130A-453.39, as enacted by Section 1 of this act, becomes effective January 1, 2010. Section 2 and Section 3 of this act are effective for taxable years beginning on or after January 1, 2009. The remainder of Section 1 of this act and the remaining sections of this act become effective October 1, 2009. This act applies to products manufactured, offered for sale, or distributed in North Carolina on or after that date.