GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2009

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HOUSE DRH10692-LD-103* (03/10)

Short Title:	Citle:Limit Toxic Flame Retardants Containing PBDEs.	
Sponsors:	Representatives Harrison, Glazier, and England (Primary Sponsors).	

Referred to:

A BILL TO BE ENTITLED

2	AN ACT RELA	TING 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	MANUFAC	FURERS TO DEVELOP ALTERNATIVE PRODUCT DESIGNS WITHOUT
6	CERTAIN C	HEMICAL FLAME RETARDANTS FOR FIRE SAFETY STANDARDS.
7	The General Ass	embly of North Carolina enacts:
8	SEC	FION 1. Chapter 130A of the General Statues is amended by adding a new
9	Article to read:	
10		"Article 19B.
11		"Flame Retardants Containing PBDEs.
12	" <u>§ 130A-453.30.</u>	Legislative findings; purpose.
13	<u>(a)</u> The C	General Assembly finds all of the following:
14	<u>(1)</u>	Polybrominated Diphenyl Ethers (PBDEs) are a class of highly efficient
15		brominated flame retardant. Since PBDEs were introduced in the 1960s,
16		PBDE concentrations in human tissue have increased exponentially, with
17		concentrations doubling every three to five years. PBDE concentrations in
18		the general population of the United States are the highest in the world.
19	<u>(2)</u>	PBDEs have been found in wildlife including fish, birds, and seals in the
20		Arctic. PBDEs are present in food consumed by people, especially fish,
21		meat, and dairy products. In the environment, higher concentrations of
22		PBDEs have been found in sediments, sewage sludge, and house dust.
23		PBDEs have also been detected in surface waters in North Carolina.
24		Scientific research indicates the concentrations of PBDEs are increasing in
25		human tissues, including breast milk, and in the environment.
26	<u>(3)</u>	Because of these increasing PBDE concentrations and results from scientific
27		studies on laboratory animals that indicate negative health impacts from
28		PBDEs at elevated concentrations, the European Union and several U.S.
29		states have banned further use of the three primary PBDE formulations:
30		PentaBDE, OctaBDE, and DecaBDE. Of the three, only DecaBDE remains
31		in widespread use today.
32	<u>(4)</u>	Exposure to PBDEs has been linked to damage of the immune system,
33		reproductive system, thyroid function, and sperm production. Exposures to
34		high levels of PBDEs have produced cancer in laboratory animals.



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1		DecaBDE has been found to cause develop	mental neurotoxicity effects in
2		laboratory animals. Breast-feeding infants l	•
3		DecaBDE.	<u> </u>
4	(5)	Effective alternatives for achieving flame ret	ardancy appear to be available
5		for most current DecaBDE applications.	• •
6	(b) The p	purpose of this Article is to protect the public he	ealth and the environment from
7		ne retardants, as well as to encourage the av	
8		nd design advances so that nonchemical alte	
9		e increasingly available for use in products.	
10	"§ 130A-453.31.		
11	As used in th	is Article, the following definitions apply:	
12	(1)	Brominated flame retardant. – Any chemical of	containing the element bromine
3		that is added to plastic, foam, or textile to inhi	
4	<u>(2)</u>	Congener. – A specific PBDE molecule.	
15	$\overline{(3)}$	Flame retardant. – Any chemical that is adde	ed to a plastic, foam, textile, or
6		other material to inhibit flame formation.	*
7	<u>(4)</u>	Manufacturer. – Any person or enterprise that	at manufactures a final product
8		containing a regulated brominated flame	
9		enterprise whose brand name is affixed to a	product containing a regulated
20		brominated flame retardant.	· · ·
21	<u>(5)</u>	DecaBDE. – Decabromo diphenyl ether or	any commercial or technical
22		mixture in which decabromo diphenyl ether is	•
23	(6)	OctaBDE. – Octabromo diphenyl ether or	
24	<u></u>	mixture in which octabromo diphenyl ether is	
25	(7)	PentaBDE. – Pentabromo diphenyl ether or	
26	<u>, , , , , , , , , , , , , , , , , , , </u>	mixture in which pentabromo diphenyl ether i	•
27	<u>(8)</u>	PBDE. – Polybrominated diphenyl ether.	
28	$\overline{(9)}$	Significant. – Any congener of a PBDE mix	sture greater than four percent
29		(4%).	•
30	" <u>§ 130A-453.32</u> .	Sale or distribution of brominated flame ret	ardants prohibited.
31		son shall not in North Carolina manufacture, se	
32	sale, or distribute	e for promotional purposes a product containing	more than 50 parts per million
33	of OctaBDE or F	PentaBDE.	
34	<u>(b)</u> <u>A per</u>	son shall not in North Carolina manufacture, se	ell, offer for sale, distribute for
35	sale, or use any o	of the following products containing DecaBDE:	
36	<u>(1)</u>	A mattress, mattress pad, or any other type of	mattress cover or mattress top.
37	<u>(2)</u>	Upholstered furniture intended for indoor use	e in a home or other residential
38		occupancy.	
39	<u>(3)</u>	Electronic devices with a plastic housing contained	aining DecaBDE.
40	(c) This	section does not apply to the sale of used pr	oducts. Subsection (b) of this
41	section does r	ot apply to the manufacture, sale, repai	r, distribution, maintenance,
42	refurbishment, o	r modification of equipment used primarily for	military applications. Further,
43	all of the follow	ving products that contain DecaBDE are exer	mpt from the requirements of
44	subsection (b) of	this section:	
45	<u>(1)</u>	Motor vehicles and aircraft, or products or p	arts for use in motor vehicles,
46		aircraft, or transportation equipment.	
47	<u>(2)</u>	Products or equipment used in industrial or ma	anufacturing processes.
18	<u>(3)</u>	Electronic wiring and cable used for power tra	
19		y of the products under subsection (a) or (b) of	· · · · · · · · · · · · · · · · · · ·
50	*	ecaBDE with any chemicals of similar co	•
51	bioaccumulation	, persistence, or long-range transport as listed in	both:

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1	<u>(1)</u>	The United States Environmental Protection Agency Toxic Release
		Inventory List of Persistent, Bioaccumulative, and Toxic Chemicals.
	<u>(2)</u>	The state of Washington's List of Persistent, Bioaccumulative, and Toxic
		Chemicals.
		Interagency committee on fire safety.
		e on fire safety is established for the purpose of assisting with the
	implementation	of this Article. This committee shall include:
	<u>(1)</u>	The State Fire Marshal or the State Fire Marshal's designee;
	<u>(2)</u>	The State Health Director or the State Health Director's designee;
	<u>(3)</u>	The Secretary of Environment and Natural Resources or that Secretary's
		designee;
	<u>(4)</u>	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;
	<u>(5)</u>	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
	UR 1204 452 24	and Natural Resources.
		Additional exemptions.
		Secretary of Environment and Natural Resources may grant an exemption to
	• •	of this Article for a term not to exceed two years. The exemption shall be written application if the specific use of commercial PBDE continues to meet
		is section and the manufacturer or other persons comply with the conditions of
		oval. The Secretary of Environment and Natural Resources may grant an
		specific use of PBDE with or without conditions, upon finding that the
	-	nonstrated any one or more of the following:
	(1)	A technically feasible alternative is not available at reasonable cost.
	$\frac{(1)}{(2)}$	The potential harm to public health and the environment directly posed by a
	<u> </u>	technically feasible alternative is greater than the potential harm caused by
		commercial PBDE.
	<u>(b)</u> <u>A fee</u>	to apply for an exemption under this section shall be imposed and shall be
	paid to the Depa	rtment 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	l Natural Resources for the costs to administer this Article.
	" <u>§ 130A-453.35</u>	Labeling; positive recognition for manufacturers.
		y of Environment and Natural Resources may establish a "Meets fire safety
		tt the use of chemical flame retardants" product-labeling program for products
		fety standards and do not contain chemical flame retardants. The Secretary of
		1 Natural Resources may establish partnerships with manufacturers to enhance
	•	oducts designed to retard fire without the use of chemical flame retardants and
		of potentially hazardous flame retardants in products. The Secretary of
		d Natural Resources may develop an awards program in conjunction with the
		Stewardship Initiative Program to recognize the accomplishments of North
		cturers who exceed the requirements of this Article and who excel at reducing
	-	memical flame retardants in products and the environment.
		<u>Transition to design for fire prevention.</u>
		na manufacturers who develop alternative product designs in order to meet fire
	-	while removing chemical flame retardants from their products are eligible for a
	-	ercentage of their research and development expenses under G.S. 105-129.56.
)	<u>8 130A-455.57</u>	Outreach and education; multistate clearinghouse.

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(a) The	Secretary of Environment and Natural Resources shall develop a program
	ucate retailers regarding the requirements of this Article and methods for
	lucts that contain DecaBDE, OctaBDE, or PentaBDE.
	Secretary of Environment and Natural Resources may participate in th
	nd implementation of a regional, multistate clearinghouse to do all of the
ollowing:	
(1)	Assist in the implementation of the requirements of this section.
(2)	Help coordinate public education and outreach activities.
(3)	Review risk assessments.
$\overline{(4)}$	Review alternatives to DecaBDE, OctaBDE, or PentaBDE.
(5)	Implement other activities related to the administration of this Article.
"§ 130A-453.38	8. Report requirement.
	han January 15 every other year, the Commission shall report to the
	Review Commission and the General Assembly regarding the regulation
	ne retardants in the State, in other states, and nationally. The report shall include
	additional actions to protect the public health and the environment fro
	ne retardants, as well as the availability to manufacturers of technological ar
	s, and nonchemical alternatives to brominated flame retardants. This report sha
-	er the provisions of this Article are accomplishing the purposes of this Article.
	. Certificate of compliance; injunctive relief and civil penalties.
(a) If th	e Secretary of Environment and Natural Resources reasonably suspects that
product contain	ing a regulated brominated flame retardant is being manufactured, sold, offered
for sale, or dist	ributed for sale in violation of this Article, the Secretary of Environment ar
Natural Resour	ces may request the manufacturer of the product to provide the Secretary
Environment ar	d Natural Resources with a certificate of compliance. Within 10 days of recei
of the request	for a certificate of compliance, the manufacturer shall do at least one of the
<u>following:</u>	
<u>(1)</u>	Provide the Secretary of Environment and Natural Resources with
	certificate declaring that the product complies with the requirements of th
	<u>Article.</u>
<u>(2)</u>	Notify persons that sell the manufacturer's product in the State that the sa
	of the product is prohibited and submit to the Secretary of Environment ar
	Natural Resources a list of the names and addresses of those notified.
<u>(b)</u> <u>If a</u>	manufacturer fails to comply with the requirements under this Article, the
	nvironment and Natural Resources may take enforcement action against the
	acturer by assessing civil penalties under subsection (c) of this section
	Attorney General to initiate immediate injunction proceedings to prevent the sa
of the product,	
	ect to subsections (d) and (e) of this section, a person who violates this Artic
is subject to the	following civil penalties:
<u>(1)</u>	If the violation is the person's first offense under this Article, a civil fine
	not more than one hundred dollars (\$100.00) per item, not to exceed five
	thousand dollars (\$5,000) total.
<u>(2)</u>	If the violation is the person's second offense under this Article, a civ
	penalty of not more than five hundred dollars (\$500.00) per item, not
	exceed a total of twenty-five thousand dollars (\$25,000).
<u>(3)</u>	If the violation is the person's third or subsequent offense under this Articl
	a civil penalty of not more than one thousand dollars (\$1,000) per item, n
	to exceed a total of fifty thousand dollars (\$50,000).

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1	(d) If a person knowingly violates this Article, the person is subject to	a civil penalty
2	equal to three times the amount of the penalty under subdivision (3) of subsec	
3	section.	
4	(e) A civil fine imposed under this section shall be waived if it is de	termined that a
5	person acted in good faith to be in compliance with this Article, pursued comp	
6	diligence, and promptly corrected any noncompliance after discovery of the viol	
7	(f) As used in this section, 'manufacturer' means any person who manufa	
8	product or whose brand name is affixed to the product and includes, in the ca	se of a product
9	that was imported into the United States, the importer or domestic distributor	
10	when the person who manufactured or assembled the product, or whose brand	•
11	to the product, does not have a presence in the United States.	
12	" <u>§ 130A-453.40. Rule making.</u>	
13	(a) The Secretary of Environment and Natural Resources may adopt rule	es to implement
14	this Article.	<u>+</u>
15	(b) The Secretary of Environment and Natural Resources may adopt rule	s regulating the
16	manufacture, use, sale, or distribution of any additional halogenated flame	
17	Commission determines that the halogenated flame retardant is harmful to public	
18	environment, and that safer alternatives are available."	
19	SECTION 2. G.S. 105-129.50 reads as rewritten:	
20	"§ 105-129.50. (See note for effective date and repeal) Definitions.	
21	The definitions in section 41 of the Code apply in this Article. In addition	h. the following
22	definitions apply in this Article:	, 0
23		
24	(6) Qualified flame-retardant research expenses. – Any amount	nt the taxpayer
25	paid or incurred for research performed in this State for	
26	producing a product design that meets the standards	
27	G.S. 130A-453.32 for use of polybrominated diphenyl ether a	
28	other chemicals listed in sections 302 and 313 of the Emer	
29	and Community Right-to-Know Act, as codified at	
30	11001-11050.	
31	(6)(6a) Qualified North Carolina research expenses. – Qualified rese	earch expenses,
32	other than North Carolina university research expenses	, for research
33	performed in this State.	
34		
35	SECTION 3. Article 3F of Chapter 105 of the General Statutes	is amended by
36	adding a new section to read:	•
37	"§ 105-129.56. Credit for nonchemical flame-retardant product	research and
38	development.	
39	(a) Credit. – A taxpayer that has qualified flame-retardant research ex	xpenses for the
40	taxable year is allowed a credit equal to a percentage of the expenses, determine	
41	in this section. Only one credit is allowed under this subsection with respe	ct to the same
42	expenses. If more than one subdivision of this subsection applies to the same exp	penses, then the
43	credit is equal to the higher percentage, not both percentages combined. If part of	of the taxpayer's
44	qualified flame-retardant research expenses qualifies under subdivision (2) of	this subsection
45	and the remainder qualifies under subdivision (3) of this subsection, the applica	ble percentages
46	apply separately to each part of the expenses.	
47	(1) Small business. – If the taxpayer was a small business as of	the last day of
48	the taxable year, the applicable percentage is three and se	
49	hundredths percent (3.75%).	

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1 2	<u>(2)</u>			ct to research performed in a centage is three and seventy-
3		five one hundredths per	rcent (3.75%).	
4	(3) Other research. – For expenses not covered under subdivision (1) or (2) of			
5		this subsection, the pe	ercentages provided in	the table below apply to the
6	taxpayer's qualified North Carolina research expenses during the taxable			
7		year at the following le	vels:	
8		Expenses Over	<u>Up To</u>	<u>Rate</u>
9		<u>-0-</u>	<u>\$50,000,000</u>	<u>1.75%</u>
10		<u>\$50,000,000</u>	<u>\$200,000,000</u>	<u>2.75%</u>
11		<u>\$200,000,000</u>	_	<u>3.75%.</u> "
12	SECT	FION 4. The initial repo	ort under G.S. 130A-45	3-38, as enacted by Section 1
13	of this act, is due no later than January 15, 2010.			
14	SECTION 5. G.S. 130A-453.32(b), as enacted by Section 1 of this act, becomes			Section 1 of this act, becomes
15	effective October 1, 2010, and G.S. 130A-453.39, as enacted by Section 1 of this act, becomes			
16	effective January 1, 2010. Section 2 and Section 3 of this act are effective for taxable years			
17	beginning on or after January 1, 2009. The remainder of Section 1 of this act and the remaining			
18	sections of this act become effective October 1, 2009. This act applies to products			
19	manufactured, of	ffered for sale, or distribu-	ted in North Carolina or	n or after that date.