GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2025

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HOUSE BILL 592 Committee Substitute Favorable 4/15/25

Short Title:	Toxic-Free Medical Devices Act of 2025.	(Public)
Sponsors:		
Referred to:		
	April 1, 2025	
A BILL TO BE ENTITLED		
AN ACT TO PROHIBIT THE MANUFACTURING, SELLING, AND DISTRIBUTING OF		
INTRAVENOUS SOLUTION CONTAINERS AND INTRAVENOUS TUBING THAT		
ARE INT	ENTIONALLY MADE WITH DEHP.	
The General Assembly of North Carolina enacts:		
	ECTION 1. Chapter 130A of the General Statutes is amend	led by adding a new
Article to read		
	"Article 19C.	
"8 130 <i>A_</i> /53	"DEHP Hazard Management.	
" <u>§ 130A-453.33. Legislative finding.</u> The General Assembly finds all of the following:		
(1)	——————————————————————————————————————	s used primarily to
<u> </u>	produce flexibility in plastics, mainly polyvinyl chloride	
<u>(2)</u>		
	intravenous solution containers, which are also know	vn as IV bags, and
	intravenous tubing.	
<u>(3)</u>		
(4)	from DEHP into the solutions being held in the medical	
<u>(4)</u>	· · · · · · · · · · · · · · · · · · ·	Protection Agency as
	an endocrine-disrupting compound since it can:a. Interfere with the hormonal system in humans an	d animale
	a. Interfere with the hormonal system in humans anb. Mimic or block the actions of hormones, leading	
	reproductive health, development, and metabolis	
<u>(5)</u>	•	
	organs and fertility. DEHP can also disrupt normal reproductive	-
	reduce sperm quality, and affect hormone levels in both	males and females.
<u>(6)</u>		
	Prolonged exposure to high levels of DEHP has been sho	wn to cause liver and
(5)	kidney damage in animal studies.	1 11
<u>(7)</u>		
	reactions in some individuals, particularly those with pr	eexisting respiratory
(8)	conditions or sensitivities.Studies have suggested a potential link between DEHP	avnosura and cartain
<u>(8)</u>	types of cancer, including breast, liver, lung, and testicul	-
<u>(9)</u>		
<u>127</u>	DEHP is a probable human carcinogen.	unit



1 The leaching of DEHP from medical devices at varying concentrations has (10)2 been linked to multidrug resistance in breast cancer cells, inhibiting the 3 effectiveness of breast cancer drugs. This phenomenon has been observed at 4 both high and low concentrations of DEHP, highlighting the potential impact 5 of DEHP leaching on cancer treatment outcomes. 6 Exposure to DEHP has been linked to multidrug resistance in triple-negative <u>(11)</u> 7 breast cancer cells, inhibiting the apoptosis mechanism induced by breast 8 cancer drugs, such as tamoxifen, and increasing cell proliferation. 9 DEHP has been suggested to serve as a mitogenic factor for estrogen (12)10 receptor-positive breast cancer cells, potentially making them multidrug 11 resistant. 12 "§ 130A-453.34. Definitions. The following definitions apply in this Article: 13 14 DEHP. – Di(2-ethylhexyl) phthalate. (1) 15 **(2)** Health care practitioner. – An individual who is authorized to practice some component of the healing arts by a license, permit, certificate, or registration 16 17 issued by a State licensing agency or board. Intentionally added DEHP. – DEHP that a manufacturer has intentionally 18 <u>(3)</u> 19 added to a product and that has a functional or technical effect on the product. 20 <u>(4)</u> Intravenous solution container. – A container used to house medicine, fluid, 21 or nutrition therapy that is intravenously delivered to a patient in a hospital, 22 outpatient facility, or other health care facility. 23 Intravenous tubing. - Tubing used to intravenously administer fluids, <u>(5)</u> 24 medication, or nutrients directly to an adult, child, or infant. 25 Ortho-phthalate. – A class of chemicals that are esters of ortho-phthalic acid, (6) 26 including DEHP or any of the following: 27 Benzyl butyl phthalate (BBP). <u>a.</u> 28 <u>b.</u> Dibutyl phthalate (DBP). 29 Dicyclohexyl phthalate (DCHP). <u>c.</u> 30 <u>d.</u> Diethyl phthalate (DEP). 31 Diisobutyl phthalate (DIBP). <u>e.</u> 32 <u>f.</u> Diisodecyl phthalate (DIDP). 33 Diisononyl phthalate (DINP). g. 34 <u>h.</u> Di-n-hexyl phthalate (DnHP). 35 <u>i.</u> Di-n-octyl phthalate (DNOP). 36 Di-n-pentyl phthalate (DnPP). į. 37 Diisoheptyl phthalate (DIHP). 38 Unintentionally added DEHP. – DEHP in an intravenous solution container **(7)** 39 or intravenous tubing product that is not used for functional or technical effect 40 on the product.

"§ 130A-453.35. Prohibitions.

- (a) <u>Intravenous Solution Containers. Beginning January 1, 2030, a person or entity shall not manufacture, sell, or distribute into commerce in the State of North Carolina intravenous solution containers made with intentionally added DEHP.</u>
- (b) <u>Intravenous Tubing. Beginning January 1, 2035, a person or entity shall not manufacture, sell, or distribute into commerce in the State of North Carolina intravenous tubing made with intentionally added DEHP.</u>
- (c) Replacement. A person may not replace DEHP, pursuant to this Article, with another ortho-phthalate in a new or revised medical device.

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- (d) Maximum Quantity. An intravenous solution container or intravenous tubing product shall not have unintentionally added DEHP present at a quantity at or above 0.1 percent weight per weight (w/w).
- (e) Exemptions. The following items, as described in Title 21 of the Code of Federal Regulations, are exempt from these provisions:
 - (1) Human blood collection and storage bags.
 - (2) Apheresis and cell therapy blood kits and bags, including integral tubing.
- (f) Delayed Compliance. A person or entity, due to pending United States Food and Drug Administration approval for the DEHP-free intravenous solution container or due to the manufacturer not having adequate equipment to manufacture the DEHP-free intravenous solution container, shall meet the requirement in subsection (a) of this section by January 1, 2032, if all of the following conditions are met:
 - (1) The person or entity notified its North Carolina customers, no later than October 1, 2025, that it has commenced development of the DEHP-free intravenous solution container to meet the requirements of this section.
 - (2) The person or entity provides notice to its customers and posts to its official internet website, no later than January 1, 2028, that it will not meet the deadline imposed pursuant to subsection (a) of this section."

SECTION 2. G.S. 130A-22(b3) reads as rewritten:

- "(b3) The Secretary may impose an administrative penalty on a person who violates Article 19A or 19B-Article 19A, 19B, or 19C of this Chapter or any rules adopted pursuant to Article 19A or 19B-Article 19A, 19B, or 19C of this Chapter. Each day of a continuing violation is a separate violation. The penalty shall not exceed five thousand dollars (\$5,000) for each day the violation continues for Article 19A of this Chapter. The penalty shall not exceed five thousand dollars (\$5,000) for each day the violation continues for Article 19B of this Chapter. The penalty shall not exceed five thousand dollars (\$5,000) for each day the violation continues for Article 19C of this Chapter. The penalty authorized by this section does not apply to a person who is not required to be certified under Article 19A or 19B."
- **SECTION 3.** Except as otherwise provided, this act is effective when it becomes law.

House Bill 592-Second Edition