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S T A T E O F R H O D E I S L A N D

IN GENERAL ASSEMBLY

JANUARY SESSION, A.D. 2022

A N A C T

RELATING TO HEALTH AND SAFETY -- MERCURY REDUCTION AND EDUCATION ACT

Introduced By: Representative Arthur Handy

Date Introduced: March 03, 2022

Referred To: House Environment and Natural Resources

It is enacted by the General Assembly as follows:

SECTION 1. Chapter 23-24.9 of the General Laws entitled "Mercury Reduction and Education Act" is hereby amended by adding thereto the following section:

23-24.9-6.1. Prohibition on fluorescent lamps.

(a) The following words in this section shall have the following meaning:

(1) "Compact fluorescent lamp" means a compact low-pressure, mercury-containing, electric-discharge light source in which a fluorescing transforms some of the ultraviolet energy generated by the mercury discharge into visible light, and includes all of the following characteristics:

(i) One base or endcap of any type, including screw, bayonet, two (2) pins, and four (4) pins;

(ii) Integrally ballasted or nonintegrally ballasted;

(iii) Light emission between a correlated color temperature of 1700K and 24000K and a Duv of +0.024 and -0.024 in the International Commission on Illumination (CIE) Uniform Color Space (CAM02-UCS);

(iv) All tube diameters and all tube lengths; and

(v) All lamp sizes and shapes for directional and nondirectional installations (including PL, spiral, twin tube, triple twin, 2D, U-bend, and circular).

(2) "Linear fluorescent lamp" means a low-pressure, mercury containing, electric-

discharge light source in which a fluorescing coating transforms some of the ultraviolet energy generated by the mercury discharge into visible light, and includes all of the following characteristics:

(i) Two (2) bases or endcaps of any type, including single-pin, two (2) pin, or recessed double contact;

(ii) Light emission between a correlated color temperature of 1700K and 24000K and a Duv of +0.024 and -0.024 in the International Commission on Illumination (CIE) Uniform Color Space (CAM02-UCS);

(iii) All tube diameters, including T2, T5, T8, T10, and T12;

(iv) All tube lengths from 0.5 to 8.0 feet inclusive; and

(v) All lamp shapes, including linear, U-bend, and circular.

(b) On and after January 1, 2024, a screw or bayonet base type compact fluorescent lamp shall not be offered for final sale, sold at final sale, or distributed in this state as a new manufactured product.

(c) On and after January 1, 2025, a pin-base type compact fluorescent lamp or a linear fluorescent lamp shall not be offered for final sale, sold at final sale, or distributed in this state as a new manufactured product.

(d) The prohibition in subsections (b) and (c) of this section shall not apply to the following compact fluorescent lamps and linear fluorescent lamps:

(1) Lamps used for image capture and projection, including photocopying, printing directly or in pre-processing, lithography, film and video projection, and holography;

(2) Lamps that have high proportions of ultraviolet light emission, including only the following:

(i) Lamps with high ultraviolet content that have ultraviolet power >2 milliwatts per kilolumen (mW/klm);

(ii) Lamps for germicidal use or destruction of DNA that emit a peak radiation of approximately 253.7 nanometers;

(iii) Lamps used for disinfection or fly trapping where the radiation power emitted is between 250-315 nanometers represents ≥5 % or is between 315-400 nanometers represents ≥20 % of the total radiation power emitted is between 250-800 nanometers;

(iv) Lamps used for the generation of ozone where the primary purpose is to emit radiation at approximately 185.1 nanometers;

(v) Lamps used for coral zooxanthellae symbioses where the radiation power emitted between 400-480 nanometers represents ≥40 % of total radiation power emitted is between 250-

800 nanometers; and

(vi) Lamps used for sun-tanning beds where the radiation power emitted is between 250-400 nanometers represents ≥80 % of the total radiation power emitted is between 250-800 nanometers.

(3) A lamp used by academic and research institutions exclusively for conducting research projects and experiments.

(e) Notwithstanding the prohibition on the sale of compact fluorescent lamps or linear fluorescent lamps under this section, a manufacturer of a mercury-containing lamp remains required to implement the collection plans required pursuant to § 23-47.9-10 for free collection of mercury containing lamps from covered entities in the state.

SECTION 2. This act shall take effect upon passage.

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EXPLANATION

BY THE LEGISLATIVE COUNCIL

OF

A N A C T

RELATING TO HEALTH AND SAFETY -- MERCURY REDUCTION AND EDUCATION ACT

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This act would prohibit, beginning January 1, 2024, any screw or bayonet base type compact fluorescent lamp to be offered for final sale, sold at final sale, or distributed in the state as a new manufactured product and after January 1, 2025 would prohibit pin-base type compact fluorescent lamp or a linear fluorescent lamp to be offered for final sale, sold at final sale, or distributed in the state as a new manufactured product.

This act would take effect upon passage.

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