

**As Passed by the Senate**

**124th General Assembly**

**Regular Session**

**2001-2002**

**Sub. S. B. No. 117**

**SENATORS Austria, Randy Gardner, Mumper, Wachtmann, Jordan,  
Johnson, Robert Gardner, Coughlin, Spada, Jacobson, Mead, White,  
Prentiss, Hagan, Armbruster, Oelslager, Herington, McLin, Brady, DiDonato,  
Hottinger, Harris, Nein, Carnes, Ryan, Mallory**

---

**A B I L L**

To enact section 4729.70 of the Revised Code to 1  
establish requirements for certain vessels 2  
containing medical gases and to require the State 3  
Board of Pharmacy to establish a medical gases 4  
safety program. 5

**BE IT ENACTED BY THE GENERAL ASSEMBLY OF THE STATE OF OHIO:**

**Section 1.** That section 4729.70 of the Revised Code be 6  
enacted to read as follows: 7

**Sec. 4729.70.** (A) As used in this section, "cryogenic vessel" 8  
means an insulated metal container in the form of a cylinder or 9  
other design used to hold gases that have been liquefied by 10  
extreme reductions in temperature. 11

(B) The state board of pharmacy shall establish and implement 12  
a medical gases safety program to ensure that cryogenic vessels 13  
containing medical gases meet the requirements of this section and 14  
are properly handled. The program applies only to cryogenic 15  
vessels that are portable and contain medical gases in a volume 16  
intended for use in administering direct treatment to one or more 17

individuals. The program does not apply to cylinders or containers  
of other designs that contain medical gases that are only  
compressed.

18  
19  
20

(C) Each cryogenic vessel subject to this section shall meet  
the following requirements:

21  
22

(1) The vessel shall be properly labeled according to the  
medical gas contained in the vessel.

23  
24

(2) The vessel shall be color coded as follows:

25

(a) Air - yellow;

26

(b) Carbon dioxide - gray;

27

(c) Cyclopropane - orange;

28

(d) Helium - brown;

29

(e) Nitrogen - black;

30

(f) Nitrous oxide - blue;

31

(g) Oxygen - green.

32

The colors specified in this division shall not be used for  
any medical gas other than those specified in this division.

33  
34

(3) The color coding specified in division (C)(2) of this  
section shall be applied to the vessel by doing either of the  
following:

35  
36  
37

(a) Applying the appropriate color to the top six inches of  
the body of the vessel;

38  
39

(b) Affixing a wrap to the vessel that encircles the vessel  
completely, has the identity of the contained gas printed  
completely or continuously around the wrap, and uses the  
appropriate color as the print or background for the name of the  
gas.

40  
41  
42  
43  
44

(4) The vessel shall not have previously contained a gas that

45

is not a medical gas.

46

(5) When the vessel is being reused for a medical gas other than the medical gas it previously contained, new labeling and color coding shall be applied to the vessel and all old labeling and color coding shall be completely removed.

47

48

49

50

(6) The connector between the vessel and the valve through which the medical gas is delivered shall be either of the following:

51

52

53

(a) A threaded or socket connection that is silver brazed or welded to the valve;

54

55

(b) A permanent and integral part of the valve.

56

(D) No person shall remove a connector between a cryogenic vessel subject to this section and the valve through which the medical gas is delivered from the vessel, replace the connector with another connector, or attach an adapter to the vessel or connector unless the person meets standards established by the board in rules adopted under this section. A person who violates this division is guilty of tampering with drugs pursuant to section 2925.24 of the Revised Code.

57

58

59

60

61

62

63

64

(E) All employees who are responsible for installing or changing the cryogenic vessels subject to this section shall be trained in the proper handling of medical gases and cryogenic vessels, including training in understanding the labeling of the vessels and recognizing the color coding required by this section.

65

66

67

68

69

(F) The board shall adopt rules to implement the medical gases safety program established pursuant to this section. The rules shall be adopted in accordance with Chapter 119. of the Revised Code.

70

71

72

73

The board's rules shall specify standards and procedures to be followed in ensuring that the individuals who modify existing

74

75

cryogenic vessels for purposes of bringing the vessels into  
compliance with this section are qualified individuals. The  
board's standards for being considered qualified shall include  
requirements for knowledge in proper safety precautions concerning  
medical gases, cryogenic vessels that contain medical gases, and  
devices through which medical gases are delivered from cryogenic  
vessels.

76  
77  
78  
79  
80  
81  
82