

**Committee of Experts on the Transport of Dangerous Goods  
and on the Globally Harmonized System of Classification  
and Labelling of Chemicals**

5 December 2019

**Sub-Committee of Experts on the Transport of  
Dangerous Goods**

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Item 3 of the provisional agenda

**Listing, classification and packing**

**Transport of transformers with gas cylinders—revision of  
2019/42**

**Transmitted by the expert from Germany**

**Proposal**

**Option 1 (with additional asphyxiation mark):**

Add the following special provision in Chapter 3.3:

“XXX Where large and robust articles are transported with connected gas cylinders containing nitrogen of UN 1066 or compressed or synthetic air of UN 1002 or UN 1956, the valves of the gas cylinders may remain open regardless of 4.1.6.1.5, provided:

- (a) The gas cylinders are connected with the article through pressure regulators and fixed piping in such a way that the pressure of the gas (gauge pressure) in the article does not exceed 35 kPa (0.35 bar).
- (b) Gas cylinders shall be properly secured so that they cannot move in relation to the article and be connected with strong and pressure resistant hoses and pipes such as to minimize the risk of damage.
- (c) Gas cylinders, pressure regulators and piping shall be protected by wooden crates or other suitable means.
- (d) The transport documents shall include the following statement “Transport in accordance with special provision XXX”.
- (e) Cargo transport units containing articles with cylinders containing a gas presenting a risk of asphyxiation shall be well ventilated and shall be marked in accordance with 5.5.3.6.“

In Chapter 3.2, insert “xxx” in column 6 of the Dangerous Goods List for UN 3538.

**Option 2 (without additional asphyxiation mark)**

Add the following special provision in Chapter 3.3:

“XXX Where large and robust articles are transported with connected gas cylinders containing nitrogen of UN 1066 or compressed or synthetic air of UN 1002 or UN 1956, the valves of the gas cylinders may remain open regardless of 4.1.6.1.5, provided:

- (a) The gas cylinders are connected with the article through pressure regulators and fixed piping in such a way that the pressure of the gas (gauge pressure) in the article does not exceed 35 kPa (0.35 bar).

(b) Gas cylinders shall be properly secured so that they cannot move in relation to the article and be connected with strong and pressure resistant hoses and pipes such as to minimize the risk of damage.

(c) Gas cylinders, pressure regulators and piping shall be protected by wooden crates or other suitable means.

(d) The transport documents shall include the following statement “Transport in accordance with special provision XXX”.

In Chapter 3.2, insert “xxx” in column 6 of the Dangerous Goods List for UN 3538.

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