

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

Sub-Committee of Experts on the Transport of Dangerous Goods

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Item 3 (c) of the provisional agenda

Listing, classification and packing: miscellaneous

Requirements for radiation detectors containing Division 2.2 gases under pressure – Revisions to Proposal in ST/SG/AC.10/C.3/2013/25

Transmitted by the Dangerous Goods Advisory Council (DGAC)

1. After further discussions DGAC proposes a revision to what was proposed in ST/SG/AC.10/C.3/2013/25 as follows:

Add ZZZ in column 6 of the Dangerous Goods List against the entry UN 1956 Compressed Gas NOS.

Add the following new special provision in Chapter 3.3:

ZZZ Radiation detectors with a Division 2.2 gas in non-specification nonrefillable pressure receptacles may be transported under this entry provided:

- (a) The maximum design pressure of each receptacle at ambient temperature shall not exceed 50 bar;
- (b) The receptacle capacity shall not exceed 12 litres;
- (c) Each receptacle shall have a minimum burst pressure of at least 3 times the design operating pressure when a relief device is fitted and at least 4 times the design operating pressure when no relief device is fitted;
- (d) Pressure receptacles shall be manufactured from material which will not fragment upon rupture;
- (e) Each detector shall be manufactured under a registered quality assurance programme;
Note: The application of ISO 9001:2008 may be considered acceptable for this purpose.
- (f) Detectors shall be transported in strong outer packagings capable of withstanding a 1.2 meter drop test without breakage of the detector or rupture of the outer packaging. Equipment that includes a detector(s) shall be packaged in a strong outer packaging unless the detector(s) is afforded equivalent protection by the equipment in which it is contained; and
- (g) The transport document shall include the following statement “Transport in accordance with special provision ZZZ”.

Radiation detectors and radiation detection systems containing detectors meeting the above requirements with a capacity of 50 mL or less are not subject to these Regulations.