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**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

Thirty-third session
Geneva, 30 June-9 July (a.m) 2008
Item 7 of the provisional agenda

**MISCELLANEOUS PROPOSALS OF AMENDMENTS TO THE MODEL REGULATIONS
ON THE TRANSPORT OF DANGEROUS GOODS**

Fumigated cargo transport units and cargo transport units containing dangerous goods
for cooling or conditioning

Transmitted by the expert from the United Kingdom*

Introduction

The Sub-Committee will recall that the expert from the United Kingdom presented ST/SG/AC.10/C.3/2007/47 at the December 2007 session. This paper contained proposals for new regulations in Part 5 of the Model Regulations to cover the marking and placarding of fumigated cargo units (UN 3359) and those cargo transport units containing dry ice as a refrigerant (UN 1845) At that meeting the expert from the United Kingdom undertook to produce a revised paper based on comments made at the meeting and those made in writing afterwards. The expert from the United Kingdom has now produced new proposals below which take these comments into account. On further consideration, it is considered appropriate to address the two issues in separate sections of a new Chapter 5.5. In addition the use of dangerous

* In accordance with the programme of work of the Sub-Committee for 2007-2008 approved by the Committee at its third session (refer to ST/SG/AC.10/C.3/60 para. 100 and ST/SG/AC.10/C.3/34, para. 14)

goods for cooling purposes, it is clear that such goods are used to condition cargo transport for other purposes. This new proposal seeks to address such circumstances as well. He believes that these proposals are now ready to be adopted at this session and he asks the Sub-Committee to consider them and agree to their incorporation into the next edition of the Model Regulations.

Chapter 5.5

Special provisions

5.5.1 Special provisions applicable to fumigated cargo transport units (UN 3359)

5.5.1.1 General

5.5.1.1.1 Fumigated cargo transport units (UN 3359) containing no other dangerous goods and meeting the marking and documentation provisions of 5.5.1.3 and 5.5.1.4 are not subject to any provisions of these Regulations other than those of this section.

5.5.1.1.2 When the fumigated cargo transport unit is loaded with dangerous goods in addition to the fumigant, any provision of these Regulations relevant to these goods (including placarding, marking and documentation) applies in addition to the provisions of this section.

5.5.1.1.3 Only cargo transport units that can be closed in such a way that the escape of gas is reduced to a minimum shall be used for the transport of fumigated cargo.

5.5.1.2 Training

Persons engaged in the handling of fumigated cargo transport units shall receive training commensurate with their responsibilities.

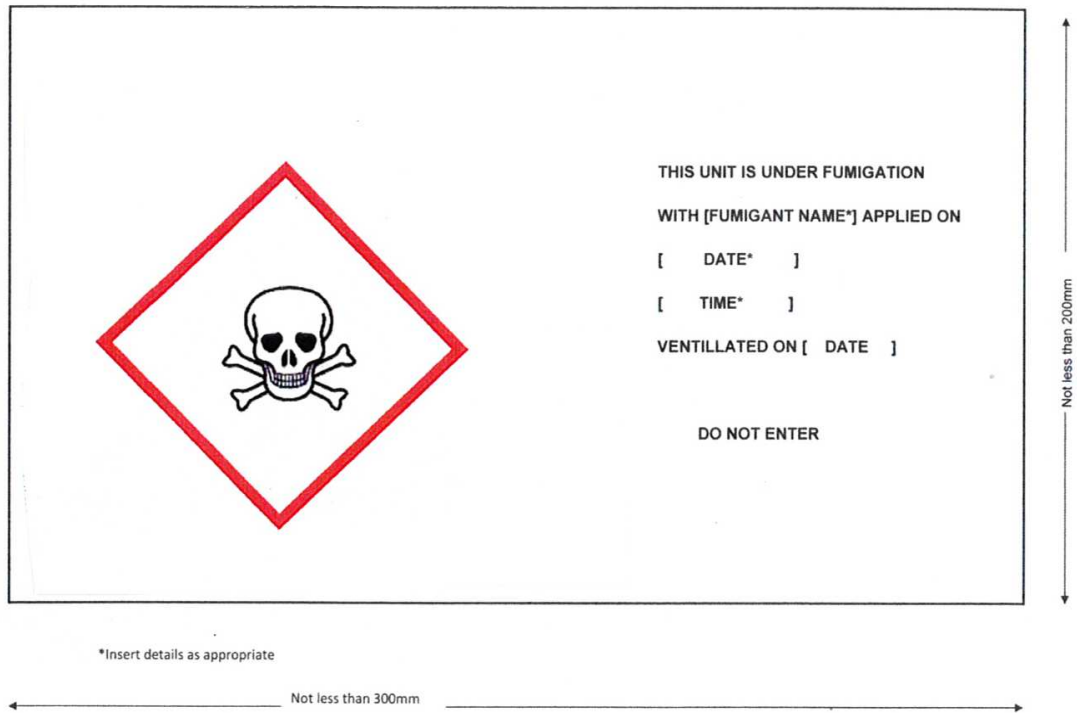
5.5.1.3 Marking and placarding

5.5.1.3.1 A fumigated cargo transport unit shall be marked with a warning mark, as specified in 5.5.1.3.2, affixed on the access door(s) in a location where it will be easily seen by persons attempting to enter the interior of the cargo transport unit. This mark shall remain on the cargo transport unit until the following provisions are met:

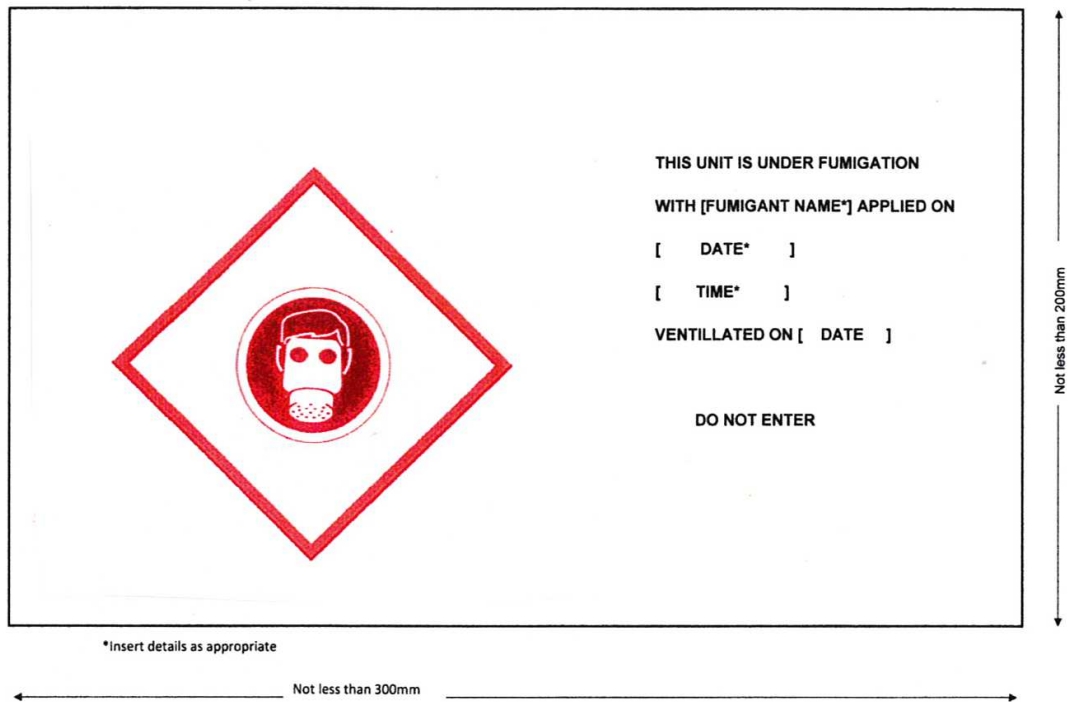
- (a) The fumigated cargo transport unit has been ventilated to remove harmful concentrations of fumigant gas; and
- (b) The fumigated goods or materials have been unloaded.

5.5.1.3.2 The fumigation warning mark shall be rectangular and shall not be less than 300 mm wide and 250 mm high. The markings shall be in black print on a white background with lettering not less than 25 mm high. An illustration of this mark is given in Figure 5.5.1.

Figure 5.5.1:



OR



5.5.1.3.3 If the fumigated cargo transport unit has been completely ventilated either by opening the doors of the unit or by mechanical ventilation after fumigation, the date of ventilation shall be marked on the fumigation warning mark.

5.5.1.3.4 When the fumigated goods or materials have been unloaded, the fumigation warning mark shall be removed.

5.5.1.3.4 The application to cargo transport units of a Class 9 placard when under fumigation is not required.

5.5.1.4 Documentation

5.5.1.4.1 Form of the transport document

The transport document may be in any form, provided it contains the information required in 5.5.1.4.2. This information shall be easy to identify, legible and durable.

5.5.1.4.2 Information required on the transport document

5.5.1.4.2.1 Transport documents associated with the transport of cargo transport units that have been fumigated shall include the following information:

UN 3359, fumigated cargo transport unit, 9
or
UN 3359, fumigated cargo transport unit, class 9

5.5.1.4.2.2 The transport document associated with the transport of a cargo transport unit that has been fumigated (and have not been ventilated before transport) shall show the date and time of fumigation and the type and amount of the fumigant used. In addition, instructions for disposal of any residual fumigant including fumigation devices (if used) shall be provided.

5.5.1.4.2.3 A transport document is not required when the cargo transport unit has been completely ventilated and when the date of ventilation has been marked on the warning mark (see 5.5.1.3.3 and 5.5.1.3.4).

5.5.2 Special provisions applicable to dangerous goods used for cooling or conditioning purposes (such as dry ice (UN 1845) or nitrogen, refrigerated liquid (UN 1977))

5.5.2.1 General

5.5.2.1.1 The transport of dangerous goods used for cooling or conditioning purposes meeting the marking, placarding and documentation provisions of 5.5.2 are not subject to any provisions of these Regulations other than those of this section and except for the applicable requirement in the packing instructions of Part 4 where the dangerous goods used as refrigerant are mentioned (e.g.: P620, P650 or P904) [pending also the proposal on closed cryogenic receptacles]

5.5.2.1.2 When the cooled or conditioned cargo transport unit is loaded with other dangerous goods, in addition to the coolant or conditioner, any provision of these Regulations relevant to these goods (including placarding, marking and documentation) applies in addition to the provisions of this chapter.

5.5.2.2 Marking and placarding

5.5.2.2.1 Packages containing solid carbon dioxide (dry ice) used as a coolant shall be marked with the words “WARNING - UN 1845 CO2 SOLID (DRY ICE)”. For packages containing other dangerous goods used for cooling or conditioning, the UN number preceded by the letters “UN” and the proper shipping name of these dangerous goods shall be marked on the package, in addition to the word “WARNING”.

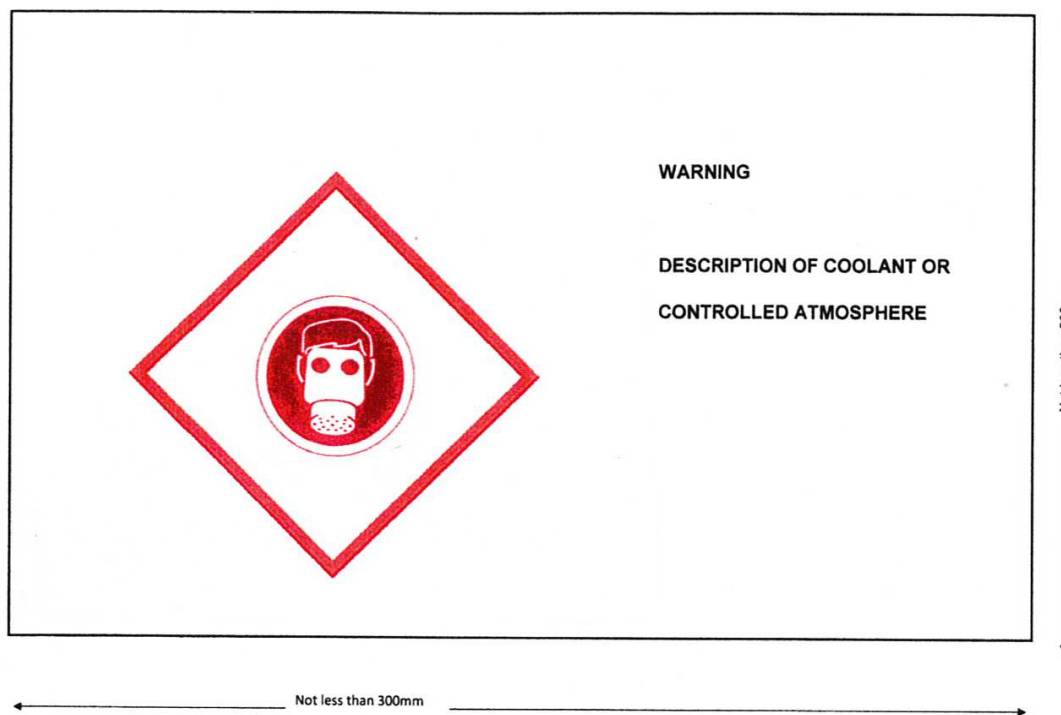
5.5.2.2.2 A cargo transport unit containing dangerous goods used for cooling or conditioning shall be marked with a warning mark, as specified in 5.5.2.2.3, affixed on the access door(s) in a location where it will be easily seen by persons attempting to enter the interior of the cargo transport unit.

5.5.2.2.3 The warning mark shall be rectangular and shall not be less than 300 mm wide and 250 mm high. The markings shall be red and black print on a white background with lettering not less than 25 mm high. The warning mark shall include:

- (a) The word “WARNING”; and
- (b) If solid carbon dioxide is used, the text “UN1845 CO2 SOLID (DRY ICE)” or, if other dangerous goods for cooling or conditioning are used, the UN number and proper shipping name of these dangerous goods.

An illustration of this mark is given in Figure 5.5.2

Figure 5.5.2:



5.5.2.2.4 Placards related to the risks of the dangerous goods used for cooling or conditioning shall not be affixed to the cargo transport unit containing such coolants or containers.

5.5.2.3 Documentation

5.5.2.3.1 Form of the transport document

If a transport document accompanies the dangerous goods used for cooling or conditioning, it may be in any form, provided it contains the information required in 5.5.2.3.2. This information shall be easy to identify, legible and durable.

5.5.2.3.2 Information required on the transport document

5.5.2.3.2.1 If a transport document accompanies the dangerous goods used as a coolant or controlled atmosphere it shall include the following information:

- (a) The UN number preceded by the letters “UN”;
- (b) The proper shipping name;
- (c) The primary hazard class or, when assigned, the division of the goods. The words “class” or “division” may be included preceding the primary hazard class or division numbers.

For example: UN 1845, dry ice, 9

Consequential amendments

Fumigated cargo transport unit:

Amend the proper shipping name of UN 3359 to read: “Fumigated cargo transport unit”.

SP302 Delete, since the proper shipping name is amended and the definition of “cargo transport unit” now covers all listed units.

Dangerous goods used for cooling or conditioning:

SP 297 Amend to read as follows:

“For documentation, marking of packages and cargo transport units, and placarding of cargo transport units, see section 5.5.2.

For air transport, arrangements between consignor and operator(s) shall be made for each consignment, to ensure that ventilation safety procedures are followed. ”
