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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-eighth session**

Geneva, 29 November–7 December 2010

Item 9 of the provisional agenda

#### **Global harmonization of transport of dangerous goods regulations with the Model Regulations**

## **Chapter 3.4 – Dangerous goods packed in limited quantities**

### **Note by the secretariat<sup>1</sup>**

1. At its thirty-sixth session, the Sub-Committee noted that the new provisions of Chapter 3.4 of the Model Regulations concerning the transport of dangerous goods packed in limited quantities would be introduced in RID, ADR and ADN for application as from 1 January 2011 with a transitional provision allowing the use of the current provisions until 31 December 2015. At the request of the industry, these provisions had been laid down in a more user-friendly way than in the Model Regulations, and the Sub-Committee invited the secretariat to propose such an option for the Model Regulations for the next session (ST/SG/AC.10/C.3/72, para.107).
2. The secretariat submitted a first proposal at the thirty-seventh session (ST/SG/AC.10/C.3/2010/41). The Sub-Committee agreed to adopt the text prepared by the secretariat except for the proposed paragraph 3.4.12 corresponding to the placarding requirements of the IMDG Code, RID, ADR and ADN since this would be a new requirement in the Model Regulations (ST/SG/AC.10/C.3/74, para. 108-109).
3. The secretariat was invited to prepare a new version of section 3.4.1 that would clarify the application to various modes of transport, and that would take account of the decisions taken for articles of division 1.4, compatibility group S (informal document INF.83 and ST/SG/AC.10/C.3/74, paras 16-18 and 109).

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<sup>1</sup> In accordance with the programme of work of the Sub-Committee for 2009-2010 approved by the Committee at its fourth session (refer to ST/SG/AC.10/C.3/68, para. 118 (g) and ST/SG/AC.10/36, para. 14).

4. For 1.4S articles and the proposals contained in informal document INF.83 submitted at the last session, the secretariat notes that the requirement for compliance with 4.1.5 in 3.4.1 (d) suggested in INF.83 implies compliance with 4.1.1, 4.1.1.3, 4.1.5.4, 4.1.5.5 etc. Therefore it does not seem necessary to specify in addition that UN packagings and relevant packing methods should be used. Moreover, if 4.1.5.3 is applicable, the usefulness of the new special provision 364 is questionable. Therefore the secretariat believes that the text proposed by SAAMI in INF.83 could be simplified by inserting an additional provision in 3.4.2 requiring compliance with 4.1.5 for 1.4 S articles.

5. The proposals below show the changes compared with what had been proposed in ST/SG/AC.10/C.3/2010/41.

## Proposals

Paragraph 3.4.1: Delete the two last sentences, and add the list of applicable provisions;

Paragraph 3.4.2: Insert a third sentence for additional packing requirements for 1.4 S articles;

Paragraph 3.4.3: Insert text at the beginning to exclude 1.4 S articles from the scope;

Paragraphs ~~3.4.2~~ to 3.4.4: Unchanged;

Paragraph 3.4.5: Delete (covered by 4.1.1.6);

Paragraph 3.4.6: Delete (first sentence of 7.1.1.7 is not applicable, see revised 3.4.1);

Paragraphs 3.4.7 and 3.4.8: Unchanged, except for the explanations relating to the marks;

Paragraph 3.4.9: Unchanged;

Paragraph 3.4.10: Delete (covered by the reference to Chapter 5.4 in 3.4.1 (e));

Paragraph 3.4.11: Add a new sentence at the end, since hazard labels are still required for air transport.

~~Add a new paragraph 3.4.12 for the marking of cargo transport units (as requested by the IMDG Code, RID, ADR and ADN) (although in ADR/RID/ADN, the requirement for marking depend on the vehicle and the quantity contained).~~

## Annex

Amend Chapter 3.4 to read as follows:

### "Chapter 3.4 Dangerous goods packed in limited quantities

3.4.1 This Chapter provides the provisions applicable to the transport of dangerous goods of certain classes packed in limited quantities. The applicable quantity limit for the inner packaging or article is specified for each substance in Column 7a of the Dangerous Goods List of Chapter 3.2. In addition, the quantity "0" has been indicated in this column for each entry not permitted to be transported in accordance with this Chapter.

Limited quantities of dangerous goods packed in such limited quantities, meeting the provisions of this Chapter, are not subject to any other provisions of these Regulations except the relevant provisions of:

- (a) Part 1, Chapters 1.1, 1.2 and 1.3;
- (b) Part 2;
- (c) Part 3, Chapters 3.1, 3.2, 3.3 ~~(except, other than for air transport: special provision 181; and, other than for air and sea transport: special provisions 61, 178, 220 and 274);~~
- (d) Part 4, paragraphs 4.1.1.1, 4.1.1.2, 4.1.1.4 to 4.1.1.8;

*NOTE: For air transport, additional provisions apply; refer to Part 3, Chapter 4 of the ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air.*

(e) Part 5: ~~for air transport only: chapters 5.1 and 5.2; for air and sea transport only: Chapter 5.4, including paragraph 5.4.1.5.2; for all modes of transport: 5.1.2.2, 5.1.2.3, 5.2.1.7 and 5.4.2.~~

(i) For air transport: chapters 5.1, 5.2 and 5.4;

(ii) For sea transport: 5.1.1.2, 5.1.2.3, 5.2.1.7 and chapter 5.4;

(iii) For transport by road, rail or inland waterway: 5.1.1.2, 5.1.2.3, 5.2.1.7 and section 5.4.2.

(f) Part 6, construction requirements of 6.1.4, paragraph 6.2.1.2 and section 6.2.4;

(g) Part 7, section 7.1.1 except first sentence of 7.1.1.7, paragraph 7.1.3.1.4 and sub-section 7.1.3.2.

3.4.2 Dangerous goods shall be packed only in inner packagings placed in suitable outer packagings. Intermediate packagings may be used. ~~However~~In addition, for articles of Division 1.4, Compatibility Group S, the provisions of section 4.1.5 shall be fully complied with. ~~The~~ use of inner packagings is not necessary for the transport of articles such as aerosols or "receptacles, small, containing gas". The total gross mass of the package shall not exceed 30 kg.

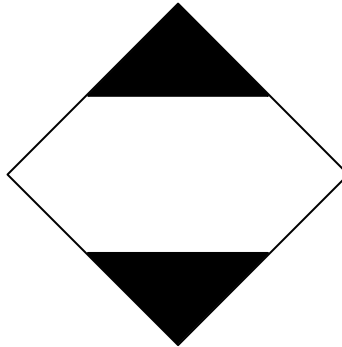
3.4.3 Except for articles of Division 1.4, Compatibility Group S, shrink-wrapped or stretch-wrapped trays meeting the conditions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 are acceptable as outer packagings for articles or inner packagings containing dangerous goods transported in accordance with this Chapter. Inner packagings that are liable to break or be

easily punctured, such as those made of glass, porcelain, stoneware or certain plastics, shall be placed in suitable intermediate packagings meeting the provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8, and be so designed that they meet the construction requirements of 6.1.4. The total gross mass of the package shall not exceed 20 kg.

3.4.4 Liquid goods of Class 8, packing group II in glass, porcelain or stoneware inner packagings shall be enclosed in a compatible and rigid intermediate packaging.

3.4.5 and 3.4.6 (Deleted)

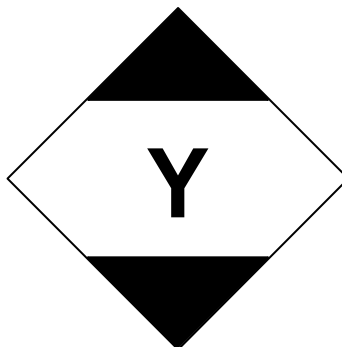
3.4.7 Except for air transport, packages containing dangerous goods in limited quantities shall bear the marking shown below:



The marking shall be readily visible, legible and able to withstand open weather exposure without a substantial reduction in effectiveness.

The top and bottom portions and the surrounding line shall be black. The centre area shall be white or a suitable contrasting background. The minimum dimensions shall be 100 mm × 100 mm and the minimum width of line forming the diamond shall be 2 mm. If the size of the package so requires, the dimension may be reduced, to be not less than 50 mm × 50 mm provided the marking remains clearly visible.

3.4.8 Packages containing dangerous goods consigned for air transport in conformity with the provisions of Part 3, Chapter 4 of the ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air shall bear the marking shown below:



The marking shall be readily visible, legible and able to withstand open weather exposure without a substantial reduction in effectiveness. The top and bottom portions and the surrounding line shall be black. The centre area shall be white or a suitable contrasting background. The minimum dimensions shall be 100 mm × 100 mm. The minimum width of line forming diamond shall be 2 mm. The symbol "Y" shall be placed in the centre of the mark and shall be clearly visible. If the size of the package so requires, the dimension may be reduced, to be not less than 50 mm × 50 mm provided the marking remains clearly visible.

3.4.9 Packages containing dangerous goods bearing the marking shown in 3.4.8 shall be deemed to meet the provisions of sections 3.4.1 to 3.4.4 of this Chapter and need not bear the marking shown in 3.4.7.

3.4.10 *(Deleted)*

3.4.11 When packages containing dangerous goods in limited quantities are placed in an overpack, the overpack shall be marked with the word "OVERPACK" and the marking required by this Chapter unless the markings representative of all dangerous goods in the overpack are visible. Except for air transport, the other provisions of 5.1.2.1 apply only if other dangerous goods which are not packed in limited quantities are contained in the overpack and only in relation to these other dangerous goods.

~~3.4.12 Cargo transport units containing dangerous goods in only limited quantities shall not be placarded nor marked according to Chapter 5.3. They shall, however, be suitably marked on the exterior with the mark shown in 3.4.7 which shall have minimum dimensions of 250 mm x 250 mm, as follows:~~

- ~~—— (a) Freight containers: on each side and on each end;~~
- ~~—— (b) Railway wagons: on each side;~~
- ~~—— (c) Road vehicles: at least on the front and on the rear.~~

~~Road vehicles and railway wagons carrying freight containers need not be marked, except when the marking affixed to the freight containers is not visible from the outside of the carrying transport unit."~~

## **Consequential amendments to Chapter 7.1**

7.1.1.2, 7.1.1.3.1, 7.1.1.4 At the beginning, insert "Unless otherwise specified in these Regulations,".

## **Justification for consequential amendments**

Hazard labels and placards are not required for dangerous goods packed in limited quantities, except for air transport.

Other than for air and sea transport, no information is required in the transport document for dangerous goods packed in limited quantities.