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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**

**Forty-eighth session**

Geneva, 30 November – 9 December 2015

Item 6 (b) of the provisional agenda

**Miscellaneous proposals for amendments to the Model Regulations   
on the Transport of Dangerous Goods: marking and labelling**

Proposal for revision of paragraph 5.2.2.2.2 of the Model Regulations

Transmitted by the expert from the Russian Federation[[1]](#footnote-2)

Introduction

1. Reference is made to documents:

1. Recommendations on the Transport of Dangerous Goods: Model Regulations (18th Revised Edition). ST/SG/AC.10/1/Rev.18 (Vol. I, II). ISBN 13: 9789210561600;

(b) GOST 19433-88. Dangerous Goods. Classification and labelling ;

(c) Transportation of Dangerous Goods Regulations in direct international rail transport between the Russian Federation and the Republic of Finland. Annex to the Agreement between the Ministry of Transport of the Russian Federation and the Ministry of Transport and Communications of the Republic of Finland on the implementation of the Agreement between the Government of the Russian Federation and the Government of the Republic of Finland on the transport of dangerous goods in the Russian-Finnish direct international railway traffic.

2. Paragraph 5.2.2.2.2 in Chapter 5.2 "Marking and labelling" of the Model Regulations (18th revised edition) gives examples of labels and their description.

3. However, in the Russian Federation, it appeared to the institutions engaged in training that the presence of multiple repetitive textual and numerical information, of large amount of information in an unstructured way, as well as of errors in 5.2.2.2.2 creates for the participants in the transport certain problems for correct interpretation and perception.

4. The Russian Federation has a long-term positive experience of providing information on the marking and labelling in a structured way (see paragraph 1, (b) and (c) above).

Proposal

5. In this regard, the Russian Federation proposes to present information 5.2.2.2.2 Chapter 5.2 "Marking and labelling" in tabular form with the distribution of repetitive text and numeric data in columns, thus removing the redundant information, and eliminate errors.

6. It is proposed to revise paragraph 5.2.2.2.2 as shown in the annex.

Justification

7. The proposed amendment would eliminate errors in 5.2.2.2.2, and would facilitate the correct interpretation and perception of the marking and labelling provisions by users of the Model Regulations.

Enforceability

8. No problem of enforcement is foreseen.

Annex

**ST/SG/AC.10/C.3/2015/46**

**5.2.2.2.2** *Specimen labels*

**UN/SCETDG/47/INF.19**

| No | Division number.  Category | Symbol: color | Background | Figure in bottom corner (color figures) | Specimen labels | Note |
| --- | --- | --- | --- | --- | --- | --- |
| **Class 1. Explosive substances or articles** | | | | | | |
| 1 | Divisions 1.1, 1.2, 1.3 | Exploding bomb: black | Orange | 1  (black) |  | - Place for division – to be left blank if explosive is the subsidiary risk  - Place for compatibility group – to be left blank if explosive is the subsidiary risk |
| 1.4 | Division 1.4 | 1.4: black.  Numerals shall be about 30 mm in height and be about 5 mm thick (for a label measuring 100 mm × 100 mm) | Orange | 1  (black) |  | - Place for compatibility group – to be left blank if explosive is the subsidiary risk |
| 1.5 | Division 1.5 | 1.5: black.  Numerals shall be about 30 mm in height and be about 5 mm thick (for a label measuring 100 mm × 100 mm) | Orange | 1  (black) |  | - Place for compatibility group – to be left blank if explosive is the subsidiary risk |
| 1.6  **3** | Division 1.6 | 1.6: black.  Numerals shall be about 30 mm in height and be about 5 mm thick (for a label measuring 100 mm × 100 mm) | Orange | 1  (black) |  | - Place for compatibility group – to be left blank if explosive is the subsidiary risk |

**4**

**ST/SG/AC.10/C.3/2015/46**

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| No | Division number.  Category | | Symbol: color | | | | Background | | Figure in bottom corner (color figures) | | | | Specimen labels | | | | | | Note | | | |
| **Class 2. Gases** | | | | | | | | | | | | | | | | | | | | | | |
| 2.1 | Division 2.1.  Flammable gases (except as provided for in 5.2.2.2.1.6 d)) | | Flame: black or white | | | | Red | | 2  (black or white) | | | |  | | |  | | - | | | |
| 2.2 | Division 2.2.  Non-flammable, non-toxic gases | | Gas cylinder: black or white | | | | Green | | 2  (black or white) | | | | 2_2_1 | | | 2_2_2 | | - | | | |
| 2.3 | Division 2.3.  Toxic gases | | Skull and crossbones: black | | | | White | | 2  (black) | | | |  | | | | | - | | | |
| No | Division number.  Category | | Symbol: color | | | | Background | | Figure in bottom corner (color figures) | | | | Specimen labels | | | | | | Note  **ST/SG/AC.10/C.3/2015/46** | | |
| **Class 3. Flammable liquids**  **UN/SCETDG/47/INF.19** | | | | | | | | | | | | | | | | | | | | | |
| 3 | - | | | Flame: black or white | | Red | | | | 3  (black or white) | | |  | |  | | | | | - | |
| **Class 4** | | | | | | | | | | | | | | | | | | | | | |
| 4.1 | Division 4.1.  Flammable solids | | | Flame: black | | White with 7 vertical red stripes | | | | 4  (black) | | |  | | | | | | | - | |
| 4.2 | Division 4.2.  Substances liable to spontaneous combustion | | | Flame: black | | Upper half white, lower half red | | | | 4  (black) | | |  | | | | | | | - | |
| 4.3  **5** | Division 4.3.  Substances which, in contact with water emit flammable gases | | | Flame: black or white | | Blue | | | | 4  (black or white) | | |  | | | |  | | | - | |
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| No  **6** | Division number.  Category | | Symbol: color | | | | Background | | Figure in bottom corner (color figures) | | | | Specimen labels | | | | | | Note  **ST/SG/AC.10/C.3/2015/46** | | |
| **Class 5.** | | | | | | | | | | | | | | | | | | | | | |
| 5.1 | Division 5.1.  Oxidizing substances | | | Flame over circle: black | | Yellow | | | | 5.1  (black) | | |  | | | | | | | - | |
| 5.2 | Division 5.2.  Organic peroxides | | | Flame: black or white | | Upper half red, lower half yellow | | | | 5.2  (black) | | |  | | | |  | | | - | |
| **Class 6** | | | | | | | | | | | | | | | | | | | | | |
| 6.1 | Division 6.1.  Toxic substances | | | Skull and crossbones: black | | White | | | | 6  (black) | | |  | | | | | | | - | |
| 6.2 | Division 6.2.  Infectious substances | | | Three crescents superimposed on a circle and inscriptions: black | | White | | | | 6  (black) | | |  | | | | | | | The lower half of the label may bear the inscriptions:  «INFECTIOUS SUBSTANCE»  and  «In the case of damage or leakage immediately notify Public Health Authority» | |
| No | Division.  Category | | Symbol: color | | | Background | | | | Figure in bottom corner (color figures)  **ST/SG/AC.10/C.3/2015/46** | | | Specimen labels | | | | | | | Note | |
| **Class 7. Radioactive material** | | | | | | | | | | | | | | | | | | | | | |
| 7A | Category I – White | | | Trefoil: black | | White | | | | | 7  (black) | |  | | | | | | | Text (mandatory): black in lower half of label:  «RADIOACTIVE»  «CONTENTS ...»  «ACTIVITY ...»  One red vertical bar shall follow the word: «RADIOACTIVE» | |
| 7B | Category II – Yellow | | | Trefoil: black | | Upper half yellow with white border, lower half white | | | | | 7  (black) | |  | | | | | | | Text (mandatory): black in lower half of label:  «RADIOACTIVE»  «CONTENTS ...»  «ACTIVITY ...»  In a black outlined box:  «TRANSPORT INDEX»;  Two red vertical bars shall follow the word: «RADIOACTIVE» | |
| 7C  **7** | Category III – Yellow | | | Trefoil: black | | Upper half yellow with white border, lower half white | | | | | 7  (black) | |  | | | | | | | Text (mandatory): black in lower half of label:  «RADIOACTIVE»  «CONTENTS ...»  «ACTIVITY ...»  In a black outlined box:  «TRANSPORT INDEX»;  Three red vertical bars shall follow the word: «RADIOACTIVE» | |
| No  **8** | | Division.  Category | | | Symbol: color | | Background | | | | | | Figure in bottom corner (color figures) | Specimen labels | | | | | | | Note  **ST/SG/AC.10/C.3/2015/46** | |
| 7E | | Class 7. Fissile material | | | - | | White | | | | | | 7  (black) |  | | | | | | | Text (mandatory): black in upper half of label: «FISSILE»;  In a black outlined box in the lower half of label: «CRITICALITY SAFETY INDEX» | |
| **Class 8. Corrosive substances** | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | - | | | Liquids, spilling from two glass vessels and attacking a hand and a metal: black | | | Upper half white, lower half black with white border | | | | 8  (white) | |  | | | | | | | - |
| **Class 9. Miscellaneous dangerous substances and articles, including environmentally hazardous substances** | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | - | | | 7 vertical stripes in upper half: black | | | White | | | | 9 underlined  (black) | | Rysunek1 | | | | | | | - |
| 9A | | | - | | | 7 vertical stripes in upper half:  black;  battery group, one broken and emitting flame in lower half:  black | | | White | | | | 9 underlined  (black) | | Class 9 batteries | | | | | | | - |

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1. Conformément au programme de travail du Sous-Comité pour la période 2015-2016 tel qu’approuvé par le Comité à sa septième session (voir ST/SG/AC.10/C.3/92, par. 95, et ST/SG/AC.10/42, par. 15). [↑](#footnote-ref-2)