



**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-seventh session**

Geneva, 21–30 June 2010

Item 5 of the provisional agenda

**Miscellaneous proposals of amendments to the Model Regulations
on the Transport of Dangerous Goods****6.1.4 Requirements for packagings****4.1.4.1 Packing instructions concerning the use of packagings****Transmitted by the expert from Italy¹***Summary*

Executive summary:	Allow the use of metals other than steel or aluminium (for example titanium), for boxes and removable head drums for explosive articles
Action to be taken:	Amend Chapter 6.1 and packing instructions in 4.1.4.1
Related documents:	– ST/SG/AC.10/C.3/2009/39 (Italy) – ST/SG/AC.10/C.3/72, paras. 59-61

Introduction

1. At the last session of the Sub-Committee, the expert from Italy presented a proposal to modify the requirements for the manufacturing of packagings mentioned in Chapter 6.1 in order to give the opportunity to build the boxes with metals other than steel or aluminium

¹ 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 (d) and ST/SG/AC.10/36, para. 14).

(code 4N). The proposal also included proposals to modify the packing instructions for explosives in section 4.1.4.1 to include 1N2 removable head drums.

2. The Sub-Committee was generally in favour of authorizing metal packagings other than steel or aluminium (for example, titanium), at least in cases where the same type of packaging (boxes or drums) was already authorized in steel or aluminium.

3. It was also noted the importance to ensure that there was no risk of incompatibility between the metal used for packaging and the carried substances.

4. The Sub-Committee and the Working Group on Explosives will find in this document a revised proposal prepared taking into account the results of the discussion and all the comments received.

Proposal

5. In Chapter 6.1, Table 6.1.2.7, in the entry "4. Boxes", after "H. Plastics", add the following line:

"N. Metal, other than steel or aluminium **4N** 6.1.4.14."

6. In 6.1.4.14, amend the title and following lines to read as follows:

Steel, aluminium **or other metal** boxes

4A Steel boxes

4B Aluminium boxes

4N Metal, other than steel or aluminium, boxes

7. Related packing instructions in section 4.1.4 should be modified in order to add **4N** and **1N2** codes as indicated below.

Note: A consolidated revised version of section 4.1.4 is reproduced in informal document INF.5. The additions are indicated in bold italics.

Packing instructions P001, P002

8. In the box "Combination packagings", under "Outer packagings", "Boxes", under "aluminium (4B)" insert the following line:

"other metal (4N) 250 kg, 400 kg, 400 kg".

Packing instruction P002

9. In the box "Single packagings", "Boxes", under "aluminium (4B)^c", insert the following line:

"other metal (4N)^c. Not allowed 400 kg 400 kg".

Packing instruction P010

10. In the box "Combination packagings", "Outer packagings", "boxes", under "steel (4A)" insert the following line:

"metal, other than steel or aluminium (4N) 400 kg".

Packing instruction P110 (a)

11. In the column "Outer packagings", under "Drums", "steel, removable head (IA2)", insert:

"metal, other than steel or aluminium, removable head (IN2)".

Packing instructions P111, P112(a), P112(b), P116, P130, P131, P134, P135, P136, P137, P138, P139, P140, P141, P142, P143, P144

12. In the column "Outer packagings"

(a) Under "Boxes", "aluminium (4B)", insert "other metal (4N)";

(b) Under "Drums", "aluminium, removable head (IB2)", insert "other metal, removable head (IN2)".

Packing instructions P112(c), P113, P114(a)

13. In the column "Outer packagings"

(a) Under "Boxes", "steel (4A)", insert:

"metal, other than steel or aluminium (4N)".

(b) Under "Drums", "aluminium, removable head (IB2)", insert

"other metal, removable head (IN2)".

Packing instructions P114(b), P115

14. In the column "Outer packagings", under "Drums", "aluminium, removable head (IB2)", insert:

"other metal, removable head (IN2)".

Packing instructions P132(a), P132(b), P133

15. In the column "Outer packagings", under "Boxes", "aluminium (4B)", insert

"other metal (4N)".

Packing instructions P400 (1) and (2); P404(1); P405(1)(a); P406(2); P501(1); P504(1), (2) and (4); P520 (1); P600; P601 (1) and (2); P602 (1) and (2); P802 (1) and (2); P803 (2); P804 (1) and (2)

16. In the list of authorized packagings, insert the code "4N" in the parenthesis after "Boxes" or after "Outer packagings" or in relation to outer packagings, as appropriate.

Packing instruction P403

17. In the box "Combination packagings", column "Outer packagings", under "Boxes", "aluminium (4B)", insert the following line:

"other metal (4N) 400 kg".

Packing instruction P410

18. In the box "Combination packagings", column "Outer packagings", under "Boxes", "aluminium (4B)", insert:

"other metal (4N) 400 kg 400 kg".

19. In the box "Single packagings", under "Boxes", "aluminium (4B)"^e, insert

"other metal (4N)"^e 400 kg 400 kg".

Packing instructions P502, P503

20. In the box "Combination packagings", under "Boxes", "aluminium (4B)", insert:

"other metal (4N) 125 kg".

Packing instruction P800

21. In paragraph (3) (d), under "Boxes", "steel (4A)", insert:

"metal, other than steel or aluminium (4N) 400 kg".
