

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 of the provisional agenda

LISTING, CLASSIFICATION AND PACKING

Materials compatibility requirements for gases in pressure receptacles

Report of the Lunch time working group

Introduction

1. Following plenary discussions of the following papers on ST/SG/AC.10/C.3/2009/30 (UK), INF. 14 (Germany), INF. 29 (UK) and INF. 32 (Belgium) on the subject of Materials compatibility requirements for gases in pressure receptacles a lunch time working group was formed under the chairmanship of Jeff Hart (UK) to resolve the issues raised during plenary discussions concerning the proposals in 2009/30 and the comments made by EIGA in INF 48.

2. The following proposals reflect the unanimous outcome of the discussions and also offers a new paragraph 1.1.1.7 to address the relationship between standards and the Model Regulations on a more generic basis.

Proposals

3. Insert new paragraph “1.1.1.7 Application of standards

Where the application of a standard is required and there is any conflict between the standard and these Regulations, the Regulations take precedence.”

4. In Section 4.1.4.1, Packing Instruction P200 paragraph 4:

Amend the first line “Keys for the column “Special packing provisions” to read “Special Packing Provisions”.

In the first heading that reads “*Material compatibility (for gases see ISO 11114-1:1997 and ISO 11114 – 2:2000)*”; amend to read “*Material compatibility*”.

Amend sub-paragraph a: “Aluminium alloy pressure receptacles are not authorized” to read “Aluminium alloy pressure receptacles shall not be used”.

Amend sub-paragraph d: “When steel pressure receptacles are used, only those bearing the “H” mark shall be authorized” to read “When steel pressure receptacles are used, only those bearing the “H” mark in accordance with 6.2.2.7.4 (p) are permitted”.

5. In reviewing the guidance contained in ISO standard 1114-1:1997 and the new draft standard ISO/DIS 11114-1:2009, the expert of the United Kingdom had noted that a number of gases are specifically identified as not being suitable for filling into aluminium alloy pressure receptacles because of concerns of compatibility without attracting the special packing provision “a” in the Tables in Packing Instruction P200. It was noted, however, that discussion of this issue in the ISO Working Group was not complete. The list of gases below were put in square brackets pending further work by ISO on the proviso that ISO would come back on the issue before the end of the biennium. If that work was not completed in time the proposal is to remove the square brackets and adopt the text. These gases are:

[P200 TABLE NO.
UN 1741	BORON TRICHLORIDE	2
UN 1008	BORON TRIFLUORIDE	2
UN 1911	DIBORANE	2
UN 2189	DICHLOROSILANE	2
UN 1052	HYDROGEN FLUORIDE, ANHYDROUS	3
UN 2418	SULPHUR TETRAFLUORIDE	2
UN 1076	PHOSGENE	2
UN 1859	SILICON TETRAFLUORIDE	2]

6. Noting the proposal from the expert from the United Kingdom to assign letter “a” in the special packing provisions against a new entry for UN 1295 TRICHLOROSILANE in Table 3 together with appropriate entries, to be decided, for the other columns of Table 3”, the chemicals industry in particular is invited to consider this proposal and comment accordingly.
