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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

Thirtieth session
Geneva, 4-12 (a.m.) December 2006
Item 2(a) of the provisional agenda

**PROPOSALS OF AMENDMENTS TO THE RECOMMENDATIONS
ON THE TRANSPORT OF DANGEROUS GOODS**

Model Regulations on the Transport of Dangerous Goods

P200 Special provision “d” for silane

Transmitted by the expert from the United States of America

Discussion

1. In UN/SCETDG/29/INF.21, the expert from the United States of America proposed to amend P200 by deleting special provision “d” from the entries for several gases. Specific test data was provided in relation to the removal of the requirement for Silane (UN2203). The testing performed evaluated the compatibility of silane gas with high strength steel alloys at ultimate tensile strength levels up to 1100 MPa. The testing procedures were in accordance with ISO 11114 – 4 “Transportable gas cylinders – Compatibility of cylinder and valve materials with gas contents – Part 4: Test methods for selecting metallic materials resistant to hydrogen embrittlement”. The results showed no embrittlement occurred of these steels alloys in the presence of Silane. The Sub-Committee agreed to consider the data presented in order that a final decision could be taken at the present session.

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2. This paper proposes the deletion of special provision “d” from the entry for Silane only based on the specific test data previously provided (see attachment to UN/SCETDG/29/INF.21). In addition, the expert from the United States proposes to add a note under 6.2.2.2 to indicate these gases are not subject to the limitations on hydrogen embrittlement for high strength steel alloys at ultimate tensile strength levels up to 1100 MPA. The expert from the United States of America is working within ISO/TC58/SC4 to modify the ISO 11114-1 based on the test data and results which were performed in accordance with method “C” of the ISO 11114-4.

Proposal

3. Delete the references to Special Provision “d” in the special packing provision column of Packing Instruction P200 for Silane (UN2203).
4. Add a note to the end of 6.2.2.2:

“Note: The limitations imposed in ISO 11114-1 on high strength steel alloys at ultimate tensile strength levels up to 1100 MPa do not apply to silane (UN2203).”
