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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

Twenty-fifth session, 5-14 July 2004  
Item 2 of the provisional agenda

TRANSPORT OF GASES

Proposal for a special provision for the transport of UN 1013 and UN 1070 in metal capsules

Transmitted by the expert of Austria

**Introduction**

The Model Regulations in the current version do not provide for a special provision related to the transport of UN 1013 CARBON DIOXIDE and of UN 1070 NITROUS OXIDE in small metal capsules. However such capsules are and have been used worldwide in households for the preparation of soda water and whipped cream for over four decades. Indeed, with regard to Nitrous Oxide these capsules may, according to the present provisions, neither be transported as Limited Quantities nor are they exempted from the requirement to be fitted with a pressure relief device.

In the provisions for the European land modes (ADR/RID/ADN) these products are subject to a special provision (584) which specifies under which conditions they may be exempted when contained in small metal capsules.

The following proposal seeks to introduce a similar special provision in the Model Regulations.

### **Proposal**

Enter “XYZ” under column 6 in the dangerous goods list of chapter 3.2 against UN 1013 and UN 1070 relating to a new Special Provision to be added in Chapter 3.3 which reads as follows:

“XYZ This gas is not subject to these Regulations when:

- it is contained in a metal capsule whose burst pressure equals or exceeds twice the test pressure;
- the test pressure is not less than the settled pressure at 65°C;
- the leakproofness of the closure of the capsule is ensured;
- a capsule contains not more than 25 g of this gas and
- a capsule contains not more than 0.75 g of this gas per cm<sup>3</sup> of capacity.”

### **Justification**

In summary, the proposal can be justified under the following headings.

#### ***Safety implications***

None; the proposal is in line with industry practices in Europe, USA and the Far East.

#### ***Feasibility***

No problems are foreseen; it will only enhance safety.

#### ***Enforceability***

No problems are to be expected.

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