



Secretariat

Distr.
GENERAL

ST/SG/AC.10/C.3/2006/95
10 September 2006

Original: ENGLISH

**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

IBC Assignment for UN3475

Transmitted by the expert from the United States of America

Background

1. At its previous session, the Sub-Committee adopted a new entry in the Dangerous Goods List for mixtures of gasoline and ethanol based on ST/SG/AC.10/C.3/2006/33 as amended by INF.70. At the time it was agreed that the appropriate IBC authorization should only be decided on after further review of the vapor pressures of such mixtures.

2. The Guiding Principles for amendments to the Model Regulations include a rationalized approach for the assignment of IBC authorizations based on a material's hazard class and packing group. For a Class 3, PG II liquid, IBC02 should be assigned. Some concern about the vapor pressure of ethanol and gas mixtures was raised at the July session. Based on the generic nature of the entry, the vapor pressure will vary depending upon the type and percentage of gasoline in the mixture. Ethanol has a vapor pressure of 5.8 kPa but the vapor pressure of gasoline varies significantly depending on the fuel grade and additives. A review of several widely commercially available blends revealed vapor pressures ranging from 29 to 103.5 kPa.

3. It is noted however that the additional requirement applied to IBC02 states the following:

“Only liquids with a vapour pressure less than or equal to 110 kPa at 50 °C, or 130 kPa at 55 °C, are authorized.”

As such mixtures with a vapor pressure exceeding 110kPa at 50 °C, or 130 kPa at 55 °C would be precluded from transport in IBCs.

On this basis it is proposed that UN3475 entry be assigned IBC02.

Proposal:

4. Amend Column 8 of the entry for UN3475 by adding “IBC02” as noted below:

| | | | | | | | | | | |
|------|--|---|--|----|-----|-----|----------------------|--|----|-----|
| 3475 | ETHANOL AND GASOLINE MIXTURE or ETHANOL AND MOTOR SPIRIT MIXTURE or ETHANOL AND PETROL MIXTURE, with more than 10% ethanol | 3 | | II | 333 | 1 L | P001 IBC02 | | T4 | TP1 |
|------|--|---|--|----|-----|-----|----------------------|--|----|-----|
