

**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-fourth session
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Proposal

Transmitted by the United States of America

2. Delete the current 5.2.2.1.13
3. Add the following new paragraphs in 5.2.1.6:

5.2.1.6 Except as provided in 5.2.1.6.1;

-combination packagings having inner packagings containing liquid dangerous goods;
-**single packagings fitted with vents**; and
-open cryogenic receptacles intended for the transport of refrigerated liquefied gases

shall be legibly marked with package orientation arrows that are similar to the illustration shown below.... *The remainder remains the same as proposed in the US 2003/55 proposal.*

5.2.1.6.1 Orientation arrows are not required on packages containing:

- (a) ~~inner packagings which are~~ **pressure gas** receptacles;
- (b) **dangerous goods flammable liquids** in inner packagings of not more than 120 mL that are prepared with sufficient absorbent material between the inner and outer packagings to completely absorb the liquid contents;
- (c) Division 6.2 infectious substances in primary receptacles of not more than 50 ml;
- (d) ~~Class 1 explosives or~~ Class 7 radioactive materials in Type B or C packages; or
- (e) ~~liquids contained in manufactured~~ articles which are leak-tight in all orientations (e.g. alcohol or mercury in thermometers, aerosols, etc.).

5.2.1.6.2 Arrows for purposes other than indicating proper package orientation shall not be displayed on a package marked in accordance with this paragraph.

Amend 4.1.1.5 by adding the two new sentences as follows:

- 4.1.1.5 Inner packagings shall be packed in an outer packaging in such a way that, under normal conditions of transport, they cannot break, be punctured or leak their contents into the outer packaging. ***Inner packagings containing liquids shall be packaged with their closures upward and placed within outer packagings consistent with the orientation markings prescribed in 5.2.1.6 of these Regulations.*** Inner packagings that are liable to break or be punctured easily, such as those made of glass, porcelain or stoneware or of certain plastics materials, etc., shall be secured in outer packagings with suitable cushioning material. Any leakage of the contents shall not substantially impair the protective properties of the cushioning material or of the outer packaging. ~~***Each package bearing package orientation markings as prescribed in 5.2.1.6 of these Regulations that is overpacked or placed in a large packaging shall be oriented in accordance with such markings.***~~

A new paragraph 5.1.2.3 should be added in 5.1.2 as follows:

5.1.2.3 Each package bearing package orientation markings as prescribed in 5.2.1.6 of these Regulations that is overpacked or placed in a large packaging shall be oriented in accordance with such markings.

5. It is proposed to amend Part 7 to indicate that carriers must transport packages consistent with the orientation markings. The following is proposed:

Amend 7.1.1.4 by adding the following additional sentences:

[“Each package containing dangerous goods bearing package orientation markings as prescribed in 5.2.1.6 of these Regulations shall be loaded on a transport vehicle, aircraft, vessel, in an overpack or within a transport unit in accordance with such markings. ~~Packages shall remain in the correct position indicated by the markings during normal conditions of transport.~~”]

Note: This may not be necessary pending adoption of the general text proposed in INF.38
