



**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****Fifty-ninth session**

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Item 6 (d) of the provisional agenda

**Miscellaneous proposals for amendments to the Model Regulations on
the Transport of Dangerous Goods: other miscellaneous proposals****Proposal for displaying the prevention of dangerous electrostatic
discharge****Transmitted by the expert from the Republic of Korea*****Introduction**

1. According to the provision 4.1.2.1 of the UN Model Regulation, it is required that when intermediate bulk containers (IBCs) are used for the transport of liquids with a flash point of 60 °C (closed-cup) or lower, or of powders liable to dust explosion, measures shall be taken to prevent a dangerous electrostatic discharge (ESD).
2. Meanwhile, there is no provision in the UN Model Regulations requiring the display of a symbol or mark on those IBCs to indicate that ESD prevention measures have been taken. As a result, it is difficult for users, shippers, or relevant personnel to check IBCs whether the preventive measures have been implemented or not during transport and handling.
3. Therefore, new provisions are needed for a unified display of a symbol or mark on IBCs to indicate that ESD protection has been measured according to provision 4.1.2.1.
4. In the case of flexible IBCs, the industry is applying the requirements on the prevention of ESD according to “IEC 61340-4-4, Standard test methods for specific applications-Electrostatic classification of flexible intermediate bulk containers”, and the symbol from “ISO 7000-2415, Protection against static electricity”.
5. Accordingly, the expert from the Republic of Korea proposes to add new provisions in the UN Model Regulations.

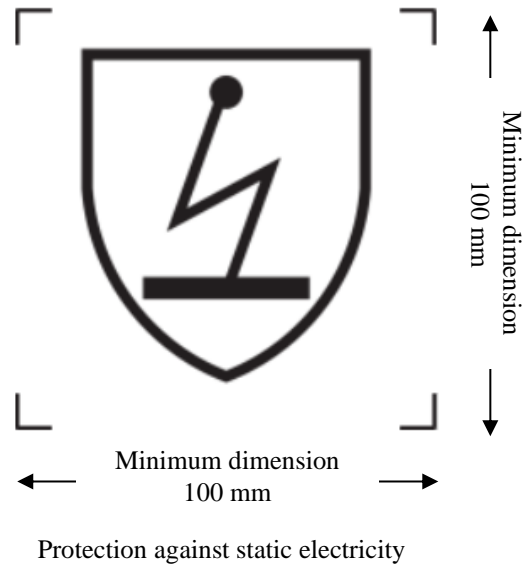
Proposal**Option 1**

6. Add new 6.5.2.2.3 to read as follows:

* A/75/6 (Sect.20), para. 20.51.

“6.5.2.2.3 IBCs for which have been taken measures to prevent a dangerous electrostatic discharge in accordance with 4.1.2.1 shall bear a symbol as shown in Figure 6.5.3. The symbol shall be durable and clearly visible.

Figure 6.5.3



The minimum dimensions shall be 100 mm x 100 mm. Where dimensions are not specified, all features shall be in approximate proportion to those shown.

Note: The provision of 6.5.2.2.3 shall apply to IBCs for which have been taken measures to prevent a dangerous electrostatic discharge in accordance with 4.1.2.1 among all IBCs manufactured, repaired or remanufactured as from XX. XX. 20XX.”

7. Renumber current 6.5.2.2.3, 6.5.2.2.4 and 6.5.2.2.5 as 6.5.2.2.4, 6.5.2.2.5 and 6.5.2.2.6, respectively.
8. The dimension and content of Figure 6.5.3, the protection against static electricity symbol is referred to 6.5.2.2.2, the maximum permitted stacking load.
9. The symbol from “ISO 7000-2415, Protection against static electricity” is referred to “IEC 61340-4-4, Standard test methods for specific applications-Electrostatic classification of flexible intermediate bulk containers”, which is now used.

Option 2

10. Add new 6.5.2.1.3 as follows:

“6.5.2.1.3 IBCs for which have been taken measures to prevent a dangerous electrostatic discharge in accordance with 4.1.2.1 shall be marked “ESD PROTECTION”. This mark shall be placed near the marks prescribed in 6.5.2.1.1”
11. Renumber current 6.5.2.1.3 and 6.5.2.1.4 as 6.5.2.1.4 and 6.5.2.1.5, respectively.
12. The place of the “ESD PROTECTION” mark is referred to in 6.5.2.1.2 on “REC” marking for IBCs manufactured from recycled plastics material.