



WORKING PAPER

**DANGEROUS GOODS PANEL (DGP)
WORKING GROUP MEETING (DGP-WG/25)**

Delhi, India, 21 to 25 April 2025

- Agenda Item 1: Harmonizing ICAO dangerous goods provisions with UN Recommendations on the Transport of Dangerous Goods (REC-A-DGS-2027)**
- 1.2: Develop proposals, if necessary, for amendments to the *Technical Instructions for the Safe Transport of Dangerous Goods by Air* (Doc 9284) for incorporation in the 2027-2028 Edition**

**DRAFT AMENDMENTS TO PART 5 OF THE TECHNICAL INSTRUCTIONS TO ALIGN
WITH THE UN RECOMMENDATIONS**

(Presented by the Secretary)

SUMMARY

This working paper contains draft amendments to Part 5 of the Technical Instructions to reflect the decisions taken by the UN Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals at its twelfth session (Geneva, 6 December 2024).

Action by the DGP-WG: The DGP-WG is invited to agree to the draft amendments in this working paper.

Chapter 2

MARKING

UN Model Regulations, Chapter 5.2, 5.2.1.9.1 (see ST/SG/AC.10/52/Add.1):

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2.4.16 Special marking requirements for lithium batteries or sodium ion batteries Battery mark

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2.4.16.2 The mark must indicate the appropriate UN number preceded by the letters "UN" as follows:

- a) "UN 3090" for lithium metal cells or batteries;
- b) "UN 3480" for lithium ion cells or batteries;
- c) "UN 3551" for sodium ion cells or batteries;
- ed) "UN 3091" for lithium metal cells or batteries contained in, or packed with, equipment;
- de) "UN 3481" for lithium ion cells or batteries contained in, or packed with, equipment; or
- ef) "UN 3552" for sodium ion cells or batteries contained in, or packed with, equipment.

UN Model Regulations, Chapter 5.2, 5.2.1.9.2 (see ST/SG/AC.10/52/Add.1):

Where a package contains ~~lithium~~ cells or batteries assigned to different UN numbers, all applicable UN numbers must be indicated on one or more marks. However, where equipment contains one or more button cells in addition to cells or batteries there is no requirement for the UN number indicating the button cell or cells to be included on the mark.

2.4.16.3 The mark must be in the form of a rectangle or a square with hatched edging. The symbol (group of batteries, one damaged and emitting flame, above the UN number for lithium ion, lithium metal or sodium ion cells or batteries) must be black on white or suitable contrasting background. The hatching must be red. The mark must be a minimum dimension of 100 mm wide x 100 mm high and the minimum width of the hatching must be 5 mm. If the size of the package so requires, the dimensions may be reduced to not less than 100 mm wide x 70 mm high. Where dimensions are not specified, all features must be in approximate proportion to those shown on the full-size mark (Figure 5-3).

UN Model Regulations, Chapter 5.2, 5.2.1.9.3 (see ST/SG/AC.10/52/Add.1):

2.4.16.4 When both the battery mark and labels in accordance with 3.5 other than the Class 9 label for lithium batteries or sodium ion batteries (Figure 5-26) are required, the battery mark must be located on the same surface as the labels if the package dimensions are adequate.

~~2.4.16.4~~ 2.4.16.5 Packages containing lithium batteries that meet the requirements of Section IB of Packing Instructions 965 or 968 must bear both the battery mark (Figure 5-3) and the lithium battery or sodium ion battery Class 9 hazard label (Figure 5-26).

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Figure 5-3. Battery mark

Note. The mark shown in Figure 5-3 of the 2021-2022 edition of the Technical Instructions may continue to be applied until 31 December 2026.

Chapter 3

LABELLING

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UN Model Regulations, Chapter 5.2, 5.2.2.2.1 (see ST/SG/AC.10/52/Add.1):

3.5 LABEL SPECIFICATIONS

3.5.1 Class hazard label specifications

3.5.1.1 Labels must satisfy the provisions of this section and conform, in terms of colour, symbols and general format, to the specimen labels shown in Figures 5-4 to 5-26. Corresponding specimen labels required for various modes of transport, with minor variations which do not affect the obvious meaning of the label, are also acceptable.

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