



WORKING PAPER

**DANGEROUS GOODS PANEL (DGP)
WORKING GROUP MEETING (DGP-WG/21)**

Virtual Meeting, 24 to 28 May 2021

- Agenda Item 1: Harmonizing ICAO dangerous goods provisions with UN Recommendations on the Transport of Dangerous Goods**
- 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 2023-2024 Edition**

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

(Presented by the DGP Working Group on UN Harmonization)

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 ninth session (Geneva, 11 December 2020).

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

Part 5

SHIPPER'S RESPONSIBILITIES

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Chapter 1

GENERAL

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1.2 GENERAL PROVISIONS FOR CLASS 7

1.2.1 Approval of shipments and notification

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UN Model Regulations, 5.1.5.1.3 (see ST/SG/AC.10/48/Add.1)

1.2.1.3 *Shipment approval by special arrangement*

~~Provisions may be approved by a~~ **A** competent authority **may approve provisions** under which ~~a consignment~~, ~~which does~~ **that do** not satisfy all of the applicable requirements of these Instructions may be transported under special arrangement (see 1;6.4).

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1.5 SALVAGE PACKAGINGS

Before a person offers any salvage packaging for transport by air, that person must ensure that:

- it is marked with the proper shipping name and UN number of, and bear all the labels appropriate for, the dangerous goods contained therein;
- it is marked with the word "Salvage" and the lettering of the "Salvage" mark must be at least 12 mm high;

UN Model Regulations, 5.4.1.5.3 (see ST/SG/AC.10/48/Add.1) (see also revision to 5;4.1.5.2 of Technical Instructions below)

- the words **"Salvage package packaging"** are added after the description of the goods in the dangerous goods transport document required by 4.1; and
- where the package contains dangerous goods restricted to transport on cargo aircraft only, it bears a "Cargo aircraft only" label and the dangerous goods transport document contains the necessary statement according to 4.1.5.8.1 c).

In addition, that person must ensure that all other applicable requirements are met.

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Chapter 2

MARKING

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2.4.16 Special marking requirements for lithium batteries

2.4.16.1 Packages containing lithium cells or batteries prepared in accordance with Section II of Packing Instructions 965 to 970 and Section IB of Packing Instructions 965 and 968 must be marked as shown in Figure 5-3.

UN Model Regulations, 5.2.1.9.2 (see ST/SG/AC.10/48/Add.1)

2.4.16.2 The mark must indicate:

a) the appropriate UN number preceded by the letters "UN" as follows:

1a) "UN 3090" for lithium metal cells or batteries;

2b) "UN 3480" for lithium ion cells or batteries;

3c) "UN 3091" for lithium metal cells or batteries contained in, or packed with, equipment; or

4d) "UN 3481" for lithium ion cells or batteries contained in, or packed with, equipment.

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.

b) ~~a telephone number for additional information.~~

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* Place for UN number(s)

** Place for telephone number for additional information —

Figure 5-3. Lithium battery mark

Note 1.— The mark illustrated in Figure 5-3 of the 2019-2020 Edition of the Technical Instructions with minimum dimensions of 120 mm x 110 mm may continue to be used.

DGP-WG/UN Harmonization questioned whether there was a need to raise to the UN Subcommittee as to why there is a use-by-date if the place for the telephone number is left blank. What of pre-printed marks or labels with Tel?

Note 2.— The mark shown in Figure-3 of the 2020-2021 Edition of the Technical Instructions may continue to be applied until 31 December 2026.

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Chapter 4

DOCUMENTATION

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4.1.4.3 Information which supplements the proper shipping name in the dangerous goods description

The proper shipping name in the dangerous goods description must be supplemented as follows:

- a) *Technical names for "n.o.s." and other generic descriptions*: Proper shipping names that are assigned an asterisk in column 1 of the Dangerous Goods List must be supplemented with their technical or chemical group names as described in 3;1.2.7;
- b) *Empty uncleaned packagings*: Empty means of containment which contain the residue of dangerous goods of classes other than Class 7 must be described as such by, for example, placing the words "Empty uncleaned" or "Residue last contained" before or after the dangerous goods description specified in 4.1.4.1 a) to e);

UN Model Regulations, 5.4.1.4.3 (see ST/SG/AC.10/48/Add.1)

- c) *Wastes*: For waste dangerous goods (other than radioactive wastes) which are being transported for disposal, or for processing for disposal, the proper shipping name must be preceded by the word "Waste", unless this is already a part of the proper shipping name;

DGP-WG/UN Harmonization discussed and concluded that molten substances are not linked to elevated temperature substances in the UN *Model Regulations*, and since elevated temperature substances are forbidden for air transport, it would be more appropriate to replace the existing provisions for elevated temperature substances with the new text from the UN Model Regulations for molten substances.

DGP-WG/UN Harmonization also considered whether the provisions should be included in the Supplement and not the Technical Instructions since the substances or articles are not permitted for air transport. DGP-WG/UN Harmonization would add a note on this principle to the *Guidance for the Panel to Aid in Preparation of the Technical Instructions and Supporting Document*.

- d) *Molten substances*: When a substance, which is solid in accordance with the definition in 1;3.1, is offered for transport in the molten state, the qualifying word "Molten" must be added as part of the proper shipping name, unless it is already part of the proper shipping name (see 3;1.2.4);
- e) ~~*Elevated temperature substances*: For solid substances, unless the word "Molten" is already included in the proper shipping name, it must be added to the proper shipping name on the dangerous goods transport document when a substance is offered for air transport in the molten state (see Part 3, Chapter 1).~~
- e) *Stabilized substances*: Unless already part of the proper shipping name the word "Stabilized" must be added to the proper shipping name if stabilization is used.

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4.1.5 Information required in addition to the dangerous goods description

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UN Model Regulations, 5.4.1.5.3 (see ST/SG/AC.10/48/Add.1) (see also revision to 5;1.4 of Technical Instructions above)

4.1.5.2 *Salvage packagings*

For dangerous goods transported in salvage packagings in accordance with 4;1.4, the words "Salvage ~~package~~ packaging" must be included.

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UN Model Regulations, 5.4.1.5.12 (see ST/SG/AC.10/48/Add.1)

4.1.5.10 Application of special provisions

Where, in accordance with a special provision in Table 3-2, additional information is necessary, this additional information must be included in the dangerous goods transport document.

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