



WORKING PAPER

DANGEROUS GOODS PANEL (DGP)

TWENTY-FOURTH MEETING

Montréal, 28 October to 8 November 2013

Agenda Item 2: Development of recommendations for amendments to the *Technical Instructions for the Safe Transport of Dangerous Goods by Air (Doc 9284)* for incorporation in the 2015-2016 Edition

IDENTIFICATION OF NET QUANTITY LIMITS APPLICABLE TO VISCOUS FLAMMABLE LIQUIDS ASSIGNED TO PACKING GROUP III

(Presented by D. Brennan)

SUMMARY

This working paper proposes that text be introduced into Part 2;3.2.2 to require the shipper to note on the dangerous goods transport document when the provisions of Part 2;3.2.2 have been applied.

Action by the DGP: The DGP is invited to amend Part 2;3.2.2 as shown in the appendix to this working paper.

1. INTRODUCTION

1.1 Part 2;3.2.2 of the Technical Instructions sets out criteria by which a shipper may assign a viscous flammable liquid to Packing Group III, notwithstanding that the flash point of the flammable liquid meets the criteria for Packing Group II.

1.2 The Technical Instructions in Part 2;3.2.2 d) then limits the net quantity per package for the viscous substances to not more than 30 L for passenger aircraft or 100 L for cargo aircraft. This is significantly below the “normal” net quantity limits for Class 3 substances which are 60 L for passenger aircraft and 220 L for cargo aircraft.

1.3 While Part 2;3.2.2 d) limits the shipper to a certain net quantity per package, there is no requirement for the shipper to have to identify that the substances has been assigned to Packing Group III in accordance with this provision and therefore no way for the operator to verify that the net quantity per package is within these more restrictive net quantity limits.

1.4 It is therefore proposed to introduce a requirement into Part 2;3.3.3 d) to require that the shipper must indicate on the dangerous goods transport document when such viscous flammable liquids have been assigned to PG III so that the acceptance check can verify compliance with the applicable limits.

1.5 It's also proposed to add a note under this subparagraph to require that where these dangerous goods may be packed in the same outer packaging as other dangerous goods that the divisor used for the "Q" value calculation is 30 or 100, as applicable.

APPENDIX

PROPOSED AMENDMENT TO PART 2 OF THE TECHNICAL INSTRUCTIONS

Part 2

CLASSIFICATION OF DANGEROUS GOODS

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Chapter 3

CLASS 3 – FLAMMABLE LIQUIDS

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3.2 ASSIGNMENT OF PACKING GROUPS

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3.2.2 Criteria for inclusion in Packing Group III

Viscous flammable liquids such as paints, enamels, varnishes, adhesives and polishes with a flash point of less than 23°C may be assigned to Packing Group III in conformity with the procedures prescribed in Part III, subsection 32.3 of the UN *Manual of Tests and Criteria* provided that:

- a) less than 3 per cent of the clear solvent layer separates in the solvent separation test;
- b) the mixture or any separated solvent does not meet the criteria for Division 6.1 or Class 8;
- c) the viscosity and flash point are in accordance with Table 2-5;
- d) when assigned to Packing Group III, the flammable liquids must not exceed a net quantity per package of 30 L for passenger aircraft or 100 L for cargo aircraft. Transport in accordance with this provision must be noted on the dangerous goods transport document.

Note.— When transported in accordance with this provision and packed with other dangerous goods in the same outer packaging as provided for in Part 4:1.1.8 e), the maximum net quantities used to calculate the “Q” value for substances assigned to Packing Group III are the net quantities specified above.

3.2.3 Substances classified as flammable liquids due to their being transported or offered for transport at elevated temperatures are included in Packing Group III.

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