



**DANGEROUS GOODS PANEL (DGP)
WORKING GROUP MEETING (DGP-WG/19)**

Montréal, 1 to 5 April 2019

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 2021-2022 Edition

REVISION TO PERMITTED PACKAGINGS IN PACKING INSTRUCTION 957

(Presented by D. Brennan)

REVISED

SUMMARY

This working paper proposes a revision to Packing Instruction 957 to include outer packagings for combination packagings to align to the packaging provisions in the UN Model Regulations.

Action by the DGP-WG: The DGP-WG is invited to consider the revisions proposed in the appendix to this working paper.

1. INTRODUCTION

1.1 With few exceptions the packing instructions in the Technical Instructions identify the packagings that are permitted for the dangerous goods that are assigned to that packing instruction. The general requirement for packagings is that the default is to identify the permitted outer packagings for combination packagings, and by exception to also identify, when applicable, the permitted single packagings.

1.2 It has been identified however, that Packing Instruction 957, which applies to UN 2211, **Polymeric beads, expandable** and UN 3314, **Plastics moulding compound** only permits the use of single packagings.

1.3 This issue came to light recently where a shipper had a consignment of UN 2211 rejected by an operator as the shipper had described on the dangerous goods transport document two different quantities of polymeric beads in the same package with a Q value. The operator rejected the consignment

on the basis that single packagings can't have inner packagings, and the packing instruction did not permit the use of combination packagings.

1.4 Recognising that the rejection of this consignment was likely unnecessary, the issue did identify an inconsistency between the Technical Instructions and the UN Model Regulations with respect to the packagings permitted for these two UN numbers.

1.5 The UN Model Regulations assigns both UN numbers to packing instruction P002, which is the generic packing instruction for solid dangerous goods. P002 permits both combination and single packagings. In looking at the packagings permitted in Packing Instruction 957, there are also inconsistencies in the single packagings permitted in P002 compared those in Packing Instruction 957.

2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to consider the revisions to the permitted single packagings for Packing Instruction 957 and to consider the adoption of the outer packagings as shown in the appendix to this working paper. To align with the requirements for combination packagings the table in Packing Instruction 957 has been modified to include the appropriate inner packagings and quantities.

APPENDIX

PROPOSED AMENDMENT TO PART 4 OF THE TECHNICAL INSTRUCTIONS

Part 4

PACKING INSTRUCTIONS

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Chapter 11

CLASS 9 — MISCELLANEOUS DANGEROUS GOODS

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Packing Instruction 957

Passenger and cargo aircraft for UN 2211 and UN 3314 only

General requirements

Part 4, Chapter 1 requirements must be met, including:

1) **Compatibility requirements**

— Substances must be compatible with their packagings as required by 4;1.1.3.

2) **Closure requirements**

— Closures must meet the requirements of 4;1.1.4.

COMBINATION PACKAGINGS					
<i>UN number and proper shipping name</i>	<i>Inner packaging (see 6;3.2)</i>	<i>Inner packaging quantity (per receptacle)</i>	<i>Quantity — passenger</i>	<i>Quantity — cargo</i>	SINGLE PACKAGINGS
UN 2211 Polymeric beads, expandable , evolving flammable vapour UN 3314 Plastics moulding compound in dough, sheet or extruded rope form evolving flammable vapour	<u>Glass</u>	<u>10 kg</u>	100 kg	200 kg	Yes
	<u>Fibre</u>	<u>50 kg</u>			
	<u>Metal</u>	<u>50 kg</u>			
	<u>Paper bag</u>	<u>50 kg</u>			
	<u>Plastics</u>	<u>50 kg</u>			
	<u>Plastic bag</u>	<u>50 kg</u>			

OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6:3.1)

Boxes

Aluminium (4B)
Fibreboard (4G)
Natural wood (4C1, 4C2)
Other metal (4N)
Plastics (4H1, 4H2)
Plywood (4D)
Reconstituted wood (4F)
Steel (4A)

Drums

Aluminium (1B1, 1B2)
Fibre (1G)
Other metal (1N1, 1N2)
Plastics (1H1, 1H2)
Plywood (1D)
Steel (1A1, 1A2)

Jerricans

Aluminium (3B1, 3B2)
Plastics (3H1, 3H2)
Steel (3A1, 3A2)

ADDITIONAL PACKING REQUIREMENTS FOR SINGLE PACKAGINGS

For other than metal and plastics packagings, a sealed plastic liner must be used.

SINGLE PACKAGINGS

Boxes

Aluminium (4B)
Fibreboard (4G)
Natural Wood (4C1, 4C2)
Other metal (4N)
Plastics (4H2)
Plywood (4D)
Reconstituted wood (4F)
Wooden (4C1, 4C2) Steel
(4A)

Drums

Aluminium (1B1, 1B2)
Fibre (1G)
Other metal (1N1, 1N2)
Plastics (1H1, 1H2)
Plywood (1D)
Steel (1A1, 1A2)

Jerricans

Aluminium (3B1, 3B2)
Plastics (3H1, 3H2)
Steel (3A1, 3A2)