International Civil Aviation Organization

DGP-WG/14-WP/7 29/9/14



WORKING PAPER

DANGEROUS GOODS PANEL (DGP) MEETING OF THE WORKING GROUP OF THE WHOLE

Rio de Janeiro, Brazil, 20 to 24 October 2014

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 2017-2018 Edition

2.4: Part 4 — Packing Instructions

PERMITTED OUTER PACKAGINGS OF COMBINATION PACKAGINGS

(Presented by D. Brennan)

SUMMARY

This working paper proposes that the DGP-WG reconsider the inclusion of closed head drums and jerricans as outer packagings of combination packagings in the packing instructions.

Action by the DGP-WG: The DGP-WG is invited to consider the revisions shown in Appendix A to this working paper.

1. **INTRODUCTION**

1.1 Based on changes adopted by the UN Subcommittee, the 17th revised edition of the UN Model Regulations included significant changes to the types of outer packagings of combination packagings to include closed head drums and jerricans (1A1, 1B1, 1H1, 1N1, 3A1, 3B1 and 3H1).

1.2 The changes to the 17th revised edition of the UN Model Regulations were consequently adopted into the 2013-2014 edition of the Technical Instructions.

1.3 The inclusion of closed head drums and jerricans as outer packagings of combination packagings by the UN Subcommittee was based on a proposal by the Expert from Germany to address very small drums with a diameter of less than 7 cm. In this case the opening of the drum or jerrican is less than 7 cm, which by virtue of the description in Part 6;3.1.1.5, 6;3.1.2.4, 6;3.1.3.4, 6;3.1.4.3 and 6;3.1.7.5 means that these small packagings are considered as "closed head", a copy of the original paper from the Expert from Germany is attached as Appendix B.

1.4 The result of the adoption of this proposal is that most packing instructions in the Technical Instructions were revised to include closed head drums and jerricans as outer packagings of combination packagings.

1.5 The effect of this has been quite an amount of confusion on the part of acceptance staff as to how UN specification packagings with very small openings can be used as the outer packaging for a packing instruction that specifically states that single packagings are not permitted i.e. that the dangerous goods must first be packed in an inner packaging, the inner packagings then being packed in the outer packaging.

1.6 Of greater concern is the potential for shippers to present solids in closed head single packagings for carriage on passenger aircraft where the packing instruction does not permit the use of single packagings. The person performing the acceptance check would see that the packing instruction permits the use of a 1A1 for example and would therefore believe that the 1A1 presented for transport is acceptable, notwithstanding that the packing instruction specifically precludes the use of single packagings, see Packing Instructions 483 – 486 for passenger aircraft.

1.7 Based on this it is proposed to remove the closed head packagings from the outer packagings tables for combination packagings.

2. **ACTION BY THE DGP-WG**

2.1 The DGP-WG is invited to revise the packing instructions as shown in Appendix A to this working paper.

APPENDIX A

PROPOSED AMENDMENT TO PART 4 OF THE TECHNICAL INSTRUCTIONS

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Part 4

PACKING INSTRUCTIONS

Chapter 3

CLASS 1 — EXPLOSIVES

Parts of this Chapter are affected by State Variation BE 2, DK 2, HR 5; see Table A-1

3.4 PACKING INSTRUCTIONS

	Packing Instruction 1	14
a) solid wetted		
Inner packagings	Intermediate packagings	Outer packagings
Bags plastics textile woven plastics Receptacles metal plastics wood	Bags plastics textile, plastic coated or lined Receptacles metal plastics Dividing partitions wood	Boxes fibreboard (4G) natural wood, ordinary (4C1) natural wood, with siftproof walls (4C2) other metal (4N) plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A) Drums aluminium (1B1, 1B2) fibre (1G) other metal (1N1, 1N2) plastics (1H1, 1H2) plywood (1D) steel (1A1, 1A2)
PARTICULAR PACKING REC	QUIREMENTS OR EXCEPTIONS:	
 For UN 0342, inner packa 1H2) drums are used as or 		1A2, 1B1, 1B2 , 1N1 o r 1N2) or plastic (1H1 or d drums are used as the outer packaging.
b) solid dry		
Inner packagings	Intermediate packagings	Outer packagings
Bags paper, kraft plastics textile, siftproof	Not necessary	Boxes fibreboard (4G) natural wood, ordinary (4C1) natural wood, with siftproof walls (4C2)

Receptacles

metal

paper

plastics wood

fibreboard

woven plastics, siftproof woven plastics, siftproof

plywood (4D) reconstituted wood (4F) Drums aluminium (1B1, 1B2) fibre (1G) other metal (1N1, 1N2) plastics (1H1, 1H2) plywood (1D) steel (1A1, 1A2)

PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS:

For UN 0077, 0132, 0234, 0235 and 0236, packagings must be lead-free.

For UN 0508 and 0509, metal packagings must not be used. For UN 0160 and 0161, when metal drums (1A1, 1A2, 1B1, 1B2, 1N1 or 1N2) are used as the outer packaging, metal _ packagings must be so constructed that the risk of explosion, by reason of increase in internal pressure from internal or external causes, is prevented.

For UN 0160 and 0161, inner packagings are not required if drums are used as the outer packaging.

	Packing Instruction	130
Inner packagings	Intermediate packagings	Outer packagings
Not necessary	Not necessary	Boxes aluminium (4B) expanded plastics (4H1) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with siftproof walls (4C2) other metal (4N) plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A) Drums aluminium (1B1, 1 B2) fibre (1G) other metal (1N1, 1 N2) plastics (1H1, 1 H2) plywood (1D) steel (1A1, 1 A2)

Inner packagings	Intermediate packagings	Outer packagings
Bags paper plastics Receptacles fibreboard metal plastics wood Reels	Not necessary	Boxes aluminium (4B) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with siftproof walls (4C2) other metal (4N) + plastics, solid (4H2) plywood (4D) reconstituted wood (4F) steel (4A) Drums aluminium (1B1, 1B2) fibre (1G) plastics (1H1, 1H2) other metal (1N1, 1N2) plywood (1D) steel (1A1, 1A2)
PARTICULAR PACKING REC	QUIREMENTS OR EXCEPTIONS:	

Packing Instruction 134		
Inner packagings	Intermediate packagings	Outer packagings
Bags water-resistant Receptacles fibreboard metal plastics wood Sheets fibreboard, corrugated Tubes fibreboard	Not necessary	Boxes aluminium (4B) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with siftproof walls (4C2) other metal (4N) plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A) Drums aluminium (1B1, 1 B2) fibre (1G) plastics (1H1, 1 H2) other metal (1N1, 1 N2) plywood (1D) steel (1A1, 1 A2)

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Packing Instruction 135		
Inner packagings	Intermediate packagings	Outer packagings
Bags paper plastics Receptacles fibreboard metal plastics wood Sheets paper plastics	Not necessary	Boxes aluminium (4B) expanded plastics (4H1) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with siftproof walls (4C2) other metal (4N) plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A) Drums aluminium (1B1, 1 B2) fibre (1G) other metal (1N1, 1 N2) plastics (1H1, 1 H2) plywood (1D) steel (1A1, 1 A2)

Packing Instruction 136		
Inner packagings	Intermediate packagings	Outer packagings
Bags plastics textile Boxes fibreboard plastics wood Dividing partitions in the outer packagings	Not necessary	Boxes aluminium (4B) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with siftproof walls (4C2) other metal (4N) plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A) Drums aluminium (1B1, 1 B2) fibre (1G) other metal (1N1, 1 N2) plastics (1H1, 1 H2) plywood (1D) steel (1A1, 1 A2)

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	Packing Instruction	138
Inner packagings	Intermediate packagings	Outer packagings
Bags plastics	Not necessary	Boxes aluminium (4B) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with siftproof walls (4C2) other metal (4N) plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A) Drums aluminium (1B1, 1B2) fibre (1G) other metal (1N1, 1N2) plastics (1H1, 1H2) plywood (1D) steel (1A1, 1A2)
PARTICULAR PACKING REG	UIREMENTS OR EXCEPTIONS:	
 If the ends of the articles a 	re sealed, inner packagings are not nece	ssary.

	Packing Instruction 2	139
Inner packagings	Intermediate packagings	Outer packagings
Bags plastics Receptacles fibreboard metal plastics wood Reels Sheets paper plastics	Not necessary	Boxes aluminium (4B) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with siftproof walls (4C2) other metal (4N) plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A) Drums aluminium (1B1, 1B2) fibre (1G) other metal (1N1, 1N2) plastics (1H1, 1H2) plywood (1D) steel (1A1, 1A2)
PARTICULAR PACKING REG	UIREMENTS OR EXCEPTIONS:	
 For UN 0065, 0102, 0104, 0289 and 0290, the ends of the detonating cord must be sealed, for example by a plug firmly fixed so that the explosive cannot escape. The ends of "Cord, detonating, flexible", must be fastened securely. For UN 0065 and 0289, inner packagings are not required when they are in coils. 		

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	Packing Instruction	140
Inner packagings	Intermediate packagings	Outer packagings
Bags plastics Reels Sheets paper, kraft plastics Receptacles wood	Not necessary	Boxes aluminium (4B) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with siftproof walls (4C2) other metal (4N) plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A) Drums aluminium (1B1, 1 B2) fibre (1G) other metal (1N1, 1 N2) plastics (1H1, 1 H2) plywood (1D) steel (1A1, 1 A2)
PARTICULAR PACKING REQU	REMENTS OR EXCEPTIONS:	
 For UN 0101, the packaging tube are covered with remova 		e is covered by a paper tube and both ends of the

	Packing Instruction	141 3.
Inner packagings	Intermediate packagings	Outer packagings
Receptacles fibreboard metal plastics wood Trays, fitted with dividing partitions plastics wood Dividing partitions in the outer packagings	Not necessary	Boxes aluminium (4B) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with siftproof walls (4C2) other metal (4N) plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A) Drums aluminium (1B1, 1B2) fibre (1G) other metal (1N1, 1N2) plastics (1H1, 1H2) plywood (1D) steel (1A1, 1A2)

Packing Instruction 142		
Inner packagings	Intermediate packagings	Outer packagings
Bags paper plastics Receptacles fibreboard metal plastics wood Sheets paper Trays, fitted with dividing partitions plastics	Not necessary	Boxes aluminium (4B) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with siftproof walls (4C2) other metal (4N) plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A) Drums aluminium (1B1, 1B2) fibre (1G) other metal (1N1, 1N2) plastics (1H1, 1H2) plywood (1D) steel (1A1, 1A2)

	Packing Instruction	143 4.
Inner packagings	Intermediate packagings	Outer packagings
Bags paper, kraft plastics textile textile, rubberized Receptacles fibreboard metal plastics wood Trays, fitted with dividing partitions plastics	Not necessary	Boxes aluminium (4B) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with siftproof walls (4C2) other metal (4N) plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A) Drums aluminium (1B1, 1B2) fibre (1G) other metal (1N1, 1N2) plastics (1H1, 1H2) plywood (1D) steel (1A1, 1A2)
PARTICULAR PACKING REQUIREN	IENTS OR EXCEPTIONS:	
that the risk of explosion, by reaso	on of increase in internal pressure	used, metal packagings must be so constructed from internal or external causes, is prevented. agings (6HH2) (plastic receptacle with outer solid

Chapter 4

CLASS 2 — GASES

Parts of this Chapter are affected by State Variations CA 10, US 6, US 15; see Table A-1

4.2 PACKING INSTRUCTIONS

Packing Instruction 206

Passenger and cargo aircraft for UN 3167, UN 3168 and UN 3169 only

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) Steel (1A1, 1A2) Jerricans

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

Chapter 5

CLASS 3 — FLAMMABLE LIQUIDS

5.1 PACKING INSTRUCTIONS

Packing Instructions 350 – 355 Passenger aircraft

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OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)

Boxes

Aluminium (4B)

Fibreboard (4G)

(2)

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)

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Packing Instructions 360 – 366

Cargo aircraft only

OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)

Boxes

Aluminium (4B)

Fibreboard (4G)

Other metal (4N)

Steel (4A)

Plastics (4H1, 4H2) Plywood (4D)

Natural wood (4C1, 4C2)

Reconstituted wood (4F)

Drums

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

Aluminium (3B1, 3B2) Other metal (3N2) Plastics (3H1, 3H2) Steel (3A1, 3A2)

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Packing Instruction 370

Passenger and cargo aircraft for UN 3269 (Packing Group II or III) only

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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) Steel (1A1, 1A2) Jerricans

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

Packing Instruction 371

Passenger and cargo aircraft for UN 1204 and UN 3064 only

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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) Steel (1A1, 1A2)

Jerricans

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

Packing Instruction 373 Passenger and cargo aircraft for UN 1228 (Packing Group II or III) only **OUTER PACKAGINGS OF COMBINATION PACKAGINGS** Boxes Drums Jerricans Aluminium (3B1, 3B2) Plastics (3H1, 3H2) Steel (3A1, 3A2) Aluminium (4B) Aluminium (1B1, 1B2) Fibreboard (4G) Natural wood (4C1, 4C2) Fibre (1G) Other metal (1N1, 1N2) Plastics (1H1, 1H2) Steel (1A1, 1A2) Other metal (4N) Plastics (4H1, 4H2) Plywood (4D) Reconstituted wood (4F) Steel (4A) . . .

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Packing Instruction 377

Cargo aircraft only for Chlorosilanes

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OUTER PACKAGINGS OF COMBINATION PACKAGINGS

Boxes

Drums

Fibreboard (4G) Natural wood (4C1, 4C2) Plastics (4H1, 4H2) Plywood (4D) Reconstituted wood (4F) Steel (4A) Fibre (1G) Plastics (1H1, 1H2) Plywood (1D) Steel (1A1, 1A2)

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Chapter 6

CLASS 4 — FLAMMABLE SOLIDS; SUBSTANCES LIABLE TO SPONTANEOUS COMBUSTION; SUBSTANCES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES

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6.2 PACKING INSTRUCTIONS

Packing Instructions 445 – 446

Passenger aircraft

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)

Packing Instructions 448 – 449

Cargo aircraft only

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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)

Packing Instruction 451

Passenger and cargo aircraft — wetted explosives (Packing Group I)

OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)

Boxes

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Drums

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

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

Aluminium (3B2) Other metal (3N2) Plastics (3H1, 3H2) Steel (3A2)

Packing Instruction 452

Passenger aircraft for UN 2555, 2556 and 2557 only

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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 (1B2) Fibre (1G) Other metal (1N2) Plastics (1H1, 1H2) Plywood (1D) Jerricans

Aluminium (3B2) Other metal (3N2) Plastics (3H1, 3H2) Steel (3A2)

Packing Instruction 453

Cargo aircraft only for UN 2555, 2556 and 2557 only

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OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)

Boxes

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

Drums

Aluminium (1B2) Fibre (1G) Other metal (1N2) Plastics (1H1, 1H2) Plywood (1D)

Jerricans

Aluminium (3B2) Other metal (3N2) Plastics (3H1, 3H2) Steel (3A2)

Packing Instruction 454

Passenger and cargo aircraft for UN 1324 only

OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)

Boxes

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Drums

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

*These packagings are permitted only for a maximum of 600 m of film.

Packing Instruction 455

Passenger and cargo aircraft for UN 1944 and 1945 only

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OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)

Boxes

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

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

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

Packing Instruction 457 Passenger and cargo aircraft for UN 3241 only **OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)** Boxes Drums Jerricans > > > Fibreboard (4G) Fibre (1G) Plastics (3H1, 3H2) Plastics (111, 1H2) Natural wood (4C1, 4C2) > Plywood (1D) > Plastics (4H1, 4H2) > Plywood (4D) Reconstituted wood (4F) > . . .

Packing Instruction 459

Passenger and cargo aircraft — self-reactive substances

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OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)

Boxes

Drums

Fibreboard (4G) Natural wood (4C1, 4C2) Plastics (4H1, 4H2) Plywood (4D) Reconstituted wood (4F)

Fibre (1G) Plastics (1H1, 1H2) Plywood (1D) Jerricans

Plastics (3H1, 3H2)

Packing Instruction 462 – 463

Passenger aircraft

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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)

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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)

Packing Instruction 464 – 465 Cargo aircraft only

Jerricans

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

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Packing Instruction 466 – 469 Passenger aircraft **OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)** Boxes Drums Jerricans Aluminium (1B1, 1B2) Aluminium (4B) Aluminium (3B1, 3B2) Fibreboard (4G) Fibre (1G) Plastics (3H1, 3H2) Natural wood (4C1, 4C2) Other metal (1N1, 1N2) Steel (3A1, 3A2) Plastics (1H1, 1H2) Other metal (4N) Plastics (4H1, 4H2) Plywood (1D)

Steel (1A1, 1A2)

Packing Instruction 470 – 471 Cargo aircraft only . . . **OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)** Boxes Drums Jerricans Aluminium (3B1, 3B2) Aluminium (4B) Aluminium (1B1, 1B2) Plastics (3H1, 3H2) Fibreboard (4G) Fibre (1G) Steel (3A1, 3A2) Natural wood (4C1, 4C2) Other metal (1N1, 1N2) Other metal (4N) Plastics (1H1, 1H2) Plastics (4H1, 4H2) Plywood (4D) Plywood (1D) Steel (1A1, 1A2) Reconstituted wood (4F) Steel (4A)

Packing Instruction 472

Passenger and cargo aircraft for UN 1362 only

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Plywood (4D)

Steel (4A)

Reconstituted wood (4F)

OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)

Boxes

Drums

Aluminium (4B) Steel (4A)

Aluminium (1B1, 1B2) Steel (1A1, 1A2)

Jerricans

Aluminium (3B1, 3B2) Steel (3A1, 3A2)

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Packing Instruction 473 Passenger and cargo aircraft - for UN 1378 and UN 2881 only **OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)** Boxes Drums Jerricans Aluminium (4B) Aluminium (1B1, 1B2) Aluminium (3B1, 3B2) Fibreboard (4G) Fibre (1G) Plastics (3H1, 3H2) Natural wood (4C1, 4C2) Other metal (1N1, 1N2) Steel (3A1, 3A2) Other metal (4N) Plastics (1H1, 1H2) Plastics (4H1, 4H2) Steel (1A1, 1A2) Plywood (4D) Reconstituted wood (4F) Steel (4A)

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Packing Instructions 478 – 479 Passenger aircraft . . . **OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)** Boxes Drums Jerricans Aluminium (4B) Aluminium (3B1, 3B2) Aluminium (1B1, 1B2) Fibreboard (4G) Fibre (1G) Plastics (3H1, 3H2) Natural wood (4C1, 4C2) Steel (3A1, 3A2) Other metal (1N1, 1N2) Plastics (1H1, 1H2) Other metal (4N) Plastics (4H1, 4H2) Plywood (1D) Plywood (4D) Steel (1A1, 1A2) Reconstituted wood (4F) Steel (4A) . . .

Packing Instructions 480 – 482

Cargo aircraft only

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. . .

OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)

Boxes

Drums

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

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)

Packing Instructions 483 – 486

Passenger aircraft

OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)

Boxes

Aluminium (4B)

Fibreboard (4G)

Other metal (4N)

Plywood (4D)

Steel (4A)

Plastics (4H1, 4H2)

Reconstituted wood (4F)

. . .

Drums

Aluminium (1B1, 1B2) Fibre 1G) Natural wood (4C1, 4C2) Other metal (1N1, 1N2) Plastics (1H1, 1H2) Plywood (1D) Steel (1A1, 1A2)

Jerricans

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

Packing Instructions 487 – 491

Cargo aircraft only

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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)

Packing Instruction 493

Passenger aircraft for UN 3399 only

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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) Steel (1A1, 1A2)

Jerricans

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

Packing Instruction 494 Cargo aircraft only for UN 3399 • • • OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1) Boxes Drums Jerricans Aluminium (4B) Aluminium (1B1, 1B2) Aluminium (3B1, 3B2) Fibre (1G) Other metal ($\frac{1}{1}$, 1N2) Plastics ($\frac{1}{1}$, 1H2) Steel ($\frac{1}{1}$, 1A2) Plastics (3H1, 3H2) Steel (3A1, 3A2) Fibreboard (4G) Natural wood (4C1, 4C2) Other metal (4N) Plastics (4H1, 4H2) Plywood (4D) Reconstituted wood (4F) Steel (4A)

Chapter 7

CLASS 5 — OXIDIZING SUBSTANCES; ORGANIC PEROXIDES

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7.2 PACKING INSTRUCTIONS

	Packing Instructions 550 – 551 Passenger aircraft	
	C C	
• • •		
OUTER PACKAGINGS OF COMBIN	IATION PACKAGINGS (see 6;3.1)	
Boxes	Drums	
Aluminium (4B) Fibreboard (4G) Natural wood (4C1, 4C2) Other metal (4N) Plastics (4H1, 4H2) Plywood (4D) Reconstituted wood (4F) Steel (4A)	Aluminium (1B1, 1B2) Fibre (1G) Other metal (1N1, 1N2) Plastics (1H1, 1H2) Steel (1A1, 1A2)	

	Packing Instructions 553 – 555 Cargo aircraft only	
• UTER PACKAGINGS OF COMBIN	NATION PACKAGINGS (see 6;3.1)	
Boxes	Drums	
Aluminium (4B) Fibreboard (4G) Natural wood (4C1, 4C2) Other metal (4N) Plastics (4H1, 4H2) Plywood (4D) Reconstituted wood (4F) Steel (4A)	Aluminium (1B1, 1B2) Fibre (1G) Other metal (1N1, 1 N2) Plastics (1H1, 1 H2) Steel (1A1, 1 A2)	

	Packing Instructions 557 – 5 Passenger aircraft	59
OUTER PACKAGINGS OF COMBIN	IATION PACKAGINGS FOR PACKIN	NG GROUP I
Boxes	Drums	
Aluminium (4B) Fibreboard (4G) Natural wood (4C1, 4C2) Other metal (4N) Plastics (4H1, 4H2) Plywood (4D) Reconstituted wood (4F) Steel (4A)	Aluminium (1B1, 1B2) Fibre (1G) Other metal (1N1, 1N2) Plastics (1H1, 1H2) Plywood (1D) Steel (1A1, 1A2)	
OUTER PACKAGINGS OF COMBIN	ATION PACKAGINGS FOR PACKIN	NG GROUPS II AND III
Boxes	Drums	Jerricans
Aluminium (4B) Fibreboard (4G) Natural wood (4C1, 4C2) Other metal (4N) Plastics (4H1, 4H2) Plywood (4D) Reconstituted wood (4F) Steel (4A)	Aluminium (1B1, 1B2) Fibre (1G) Other metal (1N1, 1N2) Plastics (1H1, 1H2) Plywood (1D) Steel (1A1, 1A2)	Aluminium (3B1, 3B2) Plastics (3H1, 3H2) Steel (3A1, 3A2)

A-19

	Packing Instructions 561 – 5 Cargo aircraft only	563
••	Cargo ancian only	
UTER PACKAGINGS OF COMBI	NATION PACKAGINGS FOR PACKI	NG GROUP I
Boxes	Drums	
Aluminium (4B) Fibreboard (4G) Natural wood (4C1, 4C2) Other metal (4N) Plastics (4H1, 4H2) Plywood (4D) Reconstituted wood (4F) Steel (4A)	Aluminium (1B1, 1B2) Fibre (1G) Other metal (1N1, 1N2) Plastics (1H1, 1H2) Plywood (1D) Steel (1A1, 1A2)	
UTER PACKAGINGS OF COMBI	NATION PACKAGINGS FOR PACKI	NG GROUPS II AND III ONLY
Boxes	Drums	Jerricans
Aluminium (4B) Fibreboard (4G) Natural wood (4C1, 4C2) Other metal (4N) Plastics (4H1, 4H2) Plywood (4D) Reconstituted wood (4F) Steel (4A)	Aluminium (1B1, 1B2) Fibre (1G) Other metal (1N1, 1 N2) Plastics (1H1, 1H2) Plywood (1D) Steel (1A1, 1A2)	Aluminium (3B1, 3B2) Plastics (3H1, 3H2) Steel (3A1, 3A2)
	Packing Instruction 570 Passenger and cargo aircraft	
••		
UTER PACKAGINGS OF COMBI	NATION PACKAGINGS (see 6;3.1)	
Boxes	Drums	Jerricans
Fibreboard (4G) Natural wood (4C1, 4C2) Plastics (4H1, 4H2)	Fibre (1G) Plastics (1H1, 1H2) Plywood (1D)	Plastics (3H1, 3H2)

Chapter 8

CLASS 6 — TOXIC AND INFECTIOUS SUBSTANCES

8.1 PACKING INSTRUCTIONS

Packing Instructions 651 – 655 Passenger aircraft . . . OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1) Boxes Drums Jerricans Aluminium (4B) Aluminium (1B1, 1B2) Aluminium (3B1, 3B2) Plastics (3H1, 3H2) Fibreboard (4G) Fibre (1G) Natural wood (4C1, 4C2) Other metal (1N1, 1N2) Steel (3A1, 3A2) Other metal (4N) Plastics (1H1, 1H2) Plastics (4H1, 4H2) Plywood (1D) Plywood (4D) Reconstituted wood (4F) Steel (1A1, 1A2) Steel (4A) . . .

Packing Instructions 657 – 663

Cargo aircraft only

OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)

Boxes

Drums

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

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Packing Instructions 665 – 670 Passenger aircraft • • • **OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)** Boxes Drums Jerricans Aluminium (4B) Aluminium (1B1, 1B2) Aluminium (3B1, 3B2) Fibreboard (4G) Fibre (1G) Plastics (3H1, 3H2) Natural wood (4C1, 4C2) Other metal (1N1, 1N2) Steel (3A1, 3A2) Other metal (4N) Plastics (1H1, 1H2) Plastics (4H1, 4H2) Plywood (4D) Plywood (1D) Steel (1A1, 1A2) Reconstituted wood (4F) Steel (4A) . . . Packing Instructions 672 – 677 Cargo aircraft only

• • •

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) Steel (1A1,1A2) Jerricans

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

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Packing Instruction 679

A-23

Cargo aircraft only for UN 1700, 2016 and 2017 only

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OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)

Boxes

Drums

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

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

Packing Instruction 680

Passenger and cargo aircraft for UN 1888 only

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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) Steel (1A1,1A2) Jerricans

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

Packing Instruction 681

Cargo aircraft only for Chlorosilanes

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OUTER PACKAGINGS OF COMBINATION PACKAGINGS

Boxes

Drums

Fibreboard (4G) Natural wood (4C1, 4C2) Plastics (4H1, 4H2) Plywood (4D) Reconstituted wood (4F) Steel (4A) Fibre (1G) Plastics (1H1, 1H2) Plywood (1D) Steel (1A1, 1A2)

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Chapter 10

A-24

CLASS 8 — CORROSIVE SUBSTANCES

10.1 PACKING INSTRUCTIONS

Packing Instructions 850 – 852

Passenger aircraft

•••

OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)

Boxes

Drums

Aluminium (4B) Fibreboard (4G) Natural wood (4C1, 4C2) Other metal (4N) Plastics (4H1, 4H2) Plywood (4D) Reconstituted wood (4F) Steel (4A) Aluminium (1B1, 1B2) Fibre (1G) Other metal (1N1, 1N2) Plastics (1H1, 1H2)

Steel (1A1, 1A2)

Jerricans

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

Packing Instructions 854 - 856

Cargo aircraft only

• • •

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) Steel (1A1, 1A2) Jerricans

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

DGP-WG/14-WP/7 Appendix A

Packing Instructions 858 – 860 Passenger aircraft . . . **OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)** Boxes Drums Jerricans Aluminium (4B) Aluminium (1B1, 1B2) Aluminium (3B1, 3B2) Fibreboard (4G) Fibre (1G) Plastics (3H1, 3H2) Natural wood (4C1, 4C2) Other metal (1N1, 1N2) Steel (3A1, 3A2) Other metal (4N) Plastics (1H1, 1H2) Plastics (4H1, 4H2) Plywood (1D) Plywood (4D) Steel (1A1, 1A2) Reconstituted wood (4F) Steel (4A) Packing Instructions 862 - 864 Cargo aircraft only

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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)

. . .

Packing Instruction 867

Passenger and cargo aircraft for UN 2803 only

. . .

OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1)

Boxes

Drums

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

Fibre (1G) Other metal (1N1, 1N2) Plastics (1H1, 1H2) Steel (1A1, 1A2)

Packing Instruction 868 Passenger and cargo aircraft for UN 2809 only • • • OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1) Drums Boxes Fibreboard (4G) Fibre (1G) Other metal (1N1, 1N2) Natural wood (4C1, 4C2) Plastics ($\frac{1H1}{1H2}$) Steel ($\frac{1A1}{1A2}$) Other metal (4N) Plastics (4H1, 4H2) Plywood (4D) Reconstituted wood (4F) Steel (4A) • • • . . . Packing Instruction 876 Cargo aircraft only for Chlorosilanes • • • **OUTER PACKAGINGS OF COMBINATION PACKAGINGS** Boxes Drums Fibreboard (4G) Fibre (1G) Plastics (1H1, 1H2) Natural wood (4C1, 4C2) Plastics (4H1, 4H2) Plywood (4D) Plywood (1D) Steel (1A1, 1A2)

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Reconstituted wood (4F) Steel (4A)

Chapter 11

CLASS 9 — MISCELLANEOUS DANGEROUS GOODS

Parts of this Chapter are affected by State Variation US 2; see Table A-1

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Packing Instruction 956 Passenger and cargo aircraft for UN 1841, UN 1931, UN 3432, UN 2969, UN 3077, UN 3152 and UN 3335 only . . . OUTER PACKAGINGS OF COMBINATION PACKAGINGS (see 6;3.1) Jerricans Boxes Drums Aluminium (3B1, 3B2) Plastics (3H1, 3H2) Steel (3A1, 3A2) Aluminium (4B) Aluminium (1B1, 1B2) Fibreboard (4G) Fibre (1G) Other metal (1N1, 1N2) Natural wood (4C1, 4C2) Natural wood (4C1, 4C2) Other metal (4N) Plastics (4H1, 4H2) Plywood (4D) Reconstituted wood (4F) Steel (4A) Plastics (1H1, 1H2) Steel (1A1, 1A2)

Fibreboard (4G)Fibre (1G)Plastics (3H1, 3H2)Natural wood (4C1, 4C2)Other metal (1N1, 1N2)Steel (3A1, 3A2)Other metal (4N)Plastics (1H1, 1H2)Steel (3A1, 3A2)Plastics (4H1, 4H2)Steel (1A1, 1A2)Plywood (4D)Reconstituted wood (4F)	Passenger and cargo aircraft	Packing Instruction 964 for UN 1941, UN 1990, UN 2315, UN 31	51, UN 3082 and UN 3334 only
BoxesDrumsJerricansAluminium (4B)Aluminium (1B1, 1B2)Aluminium (3B1, 3B2Fibreboard (4G)Fibre (1G)Plastics (3H1, 3H2)Natural wood (4C1, 4C2)Other metal (1N1, 1N2)Steel (3A1, 3A2)Other metal (4N)Plastics (1H1, 1H2)Steel (3A1, 3A2)Plastics (4H1, 4H2)Steel (1A1, 1A2)Plywood (4D)Reconstituted wood (4F)			
Aluminium (4B)Aluminium (1B1, 1B2)Aluminium (3B1, 3B2Fibreboard (4G)Fibre (1G)Plastics (3H1, 3H2)Natural wood (4C1, 4C2)Other metal (1N1, 1N2)Steel (3A1, 3A2)Other metal (4N)Plastics (1H1, 1H2)Steel (3A1, 3A2)Plastics (4H1, 4H2)Steel (1A1, 1A2)Plastics (4H1, 4H2)Plywood (4D)Reconstituted wood (4F)Fibre (1G)	ER PACKAGINGS OF COMBIN	ATION PACKAGINGS (see 6;3.1)	
Fibreboard (4G)Fibre (1G)Plastics (3H1, 3H2)Natural wood (4C1, 4C2)Other metal (1N1, 1N2)Steel (3A1, 3A2)Other metal (4N)Plastics (1H1, 1H2)Steel (3A1, 3A2)Plastics (4H1, 4H2)Steel (1A1, 1A2)Plywood (4D)Reconstituted wood (4F)Fibre (1G)Fibre (1G)	Boxes	Drums	Jerricans
	Fibreboard (4G) Natural wood (4C1, 4C2) Other metal (4N) Plastics (4H1, 4H2) Plywood (4D)	Fibre (1G) Other metal (1N1, 1N2) Plastics (1H1, 1H2)	

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A-27

DGP-WG/14-WP/7

Appendix A

United Nations



DGP-WG/14-WP/7 Appendix B

ST/SG/AC.10/C.3/2010/66

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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

Thirty-eighth session Geneva, 29 November–7 December 2010 Item 4 of the provisional agenda Listing, classification and packing

1) Combination packagings – additional outer packagings

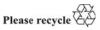
Transmitted by the expert from Germany¹

2) Introduction

1. If drums or jerricans are used as outer packagings of combination packagings, drums and jerricans with removable head have to be used. For the transport of dangerous goods in small amounts, small packages are applied. It is possible that the diameter of the drum or the dimensions of the jerrican is less than 70 mm. In this case, the diameter of the maximum opening is less than 70 mm and it is a packaging with a non-removable head. Packagings with a non-removable head are not allowed as outer packagings of a combination packaging. This limitation to drums and jerricans with removable head is not due to safety reasons, but it probably was not realized that there might be a need for such small outer packagings as usually larger amounts of dangerous goods are transported.

2. It is proposed to allow the use of drums and jerricans with non-removable heads as outer packagings of combination packagings in several packing instructions. This will avoid administrative effort caused by approvals on the basis of exemptions.

¹In accordance with the programme of work of the Sub-Committee for 2009-2010 approved by the Committee at its fourth session (refer to ST/SG/AC.10/C.3/68, para. 118 (b) and ST/SG/AC.10/36, para. 14).



3) Proposal

3. Whenever the codes 1A2, 1B2, 1N2, 1H2, 3A2, 3B2 or 3H2 are indicated for drums or jerricans permitted as outer packagings of combination packagings in the packing instructions of Chapter 4.1, insert the codes 1A1, 1B1, 1N1, 1H1, 3A1, 3B1 or 3H1 as appropriate and delete the words "removable head" if relevant (applies to packing instructions P001, P002, P010, P110(a), P111, P112(a), P112(b), P112(c), P113, P114(a), P114(b), P115, P116, P130, P131, P134, P135, P136, P137, P138, P139, P140, P141, P142, P143, P144, P400, P403, P404, P410, P501, P502, P503, P504, P520, P600, P601, P602, P800, P802 and P804).

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