



International Civil Aviation Organization

DGP/23-WP/30  
15/8/11

## WORKING PAPER

### DANGEROUS GOODS PANEL (DGP)

#### TWENTY-THIRD MEETING

Montréal, 11 to 21 October 2011

**Agenda Item 3: Development of recommendations for amendments to the *Supplement to the Technical Instructions for the Safe Transport of Dangerous Goods by Air* (Doc 9284SU) for incorporation in the 2013-2014 Edition**

### **DRAFT AMENDMENTS TO THE SUPPLEMENT TO THE TECHNICAL INSTRUCTIONS TO ALIGN WITH THE UN RECOMMENDATIONS**

(Presented by the Secretary)

#### **SUMMARY**

This working paper contains draft amendments to the Supplement to 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 fifth session (Geneva, 10 December 2010). It also reflects amendments agreed by DGP-WG/10 (Abu Dhabi, United Arab Emirates, 7 to 11 November 2010) and DGP-WG/11 (Atlantic City, United States, 4 to 8 April 2011).

The DGP is invited to agree to the draft amendments in this working paper.

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DGP/23-WP/3, paragraph 3.3.3:

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## **Part S-1**

### **GENERAL**

#### **(ADDITIONAL INFORMATION FOR PART 1 OF THE TECHNICAL INSTRUCTIONS)**

#### **Chapter 1**

#### **SCOPE AND APPLICABILITY**

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##### **1.1 DESIGNATION OF NATIONAL AUTHORITY**

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1.1.2 In addition, contact information for other agencies responsible for specific classes (e.g. radioactive material, infectious substances) or for specific actions (e.g. issuance of approvals or exemptions) should be included.

| *Note.— For the separation of explosives, see Part 7:2.3.*

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**Part S-3. DANGEROUS GOODS LIST AND LIMITED QUANTITIES EXCEPTIONS**  
(additional information for Part 3 of the Technical Instructions)

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**Chapter 3**

**SPECIAL PROVISIONS**

**Table S-3-4. Special Provisions**

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DGP/23-WP/3, paragraph 3.2.26

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- A202 For the purpose of providing life support for aquatic animals during transport, the appropriate authority of the States of Origin, of Destination and of the Operator may approve the carriage of ~~a~~ cylinders containing oxygen compressed, UN 1072 and Air, compressed UN 1002, with the valve(s) open to supply a controlled quantity of oxygen or air through a regulator into water containing the aquatic animals. The cylinder or cylinder valve must be fitted with a self-sealing device to prevent uncontrolled release of oxygen or air should the regulator malfunction or be broken or damaged. The oxygen or air cylinder must meet those parts of Packing Instruction 200 which apply, except for the need for valves to be closed. In addition, the following conditions apply as a minimum:
- a) the water container with the attached oxygen and/or air cylinder (transportation unit) must be engineered and constructed to withstand all anticipated loads. No more than two cylinders of which a maximum is one cylinder of oxygen are permitted;
  - b) the water container must be tilt-tested at an angle of 45° in four directions from the upright for a 10-minute minimum duration in each direction with the oxygen supply operating, without leakage of water;
  - c) the oxygen or air cylinder and regulator must be restrained and protected within the equipment;
  - d) the oxygen or air regulator used must have a maximum flow rate of not more than five litres per minute;
  - e) the oxygen or air flow rate to the container must be limited to that sufficient to provide life support to the aquatic animals;
  - f) the quantity of oxygen or air provided must not exceed 150 per cent of the oxygen or air required for the normal duration of air transport; and
  - g) only one cylinder may be carried for each 15 cubic metres of gross cargo hold volume. In no circumstances may the rate of oxygen or air flow from the cylinder exceed one litre per minute per five cubic metres of gross cargo hold volume.

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DGP/23-WP/3, paragraph 3.3.1:

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- A218 This substance must not be transported under the provisions of Division 4.1 unless specifically authorized by the appropriate national authority (see UN 0143 or UN 0150 as appropriate).

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- A225 (358) Nitroglycerin solution in alcohol with more than 1 per cent but not more than 5 per cent nitroglycerin may be classified in Class 3 and assigned to UN 3064 provided all the requirements of Packing Instruction 371 are complied with.

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## Part S-4

# PACKING INSTRUCTIONS

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### Chapter 3

#### CLASS 1 — EXPLOSIVES

110	PACKING INSTRUCTION 110 (UN packing method EP 10)	110
<p>a) <i>Inner packagings</i></p> <p>Bags plastics textile, plastic-coated or lined rubber textile, rubberized textile</p> <p><del>Receptacles</del> <del>wood</del></p>	<p><i>Intermediate packagings</i></p> <p>Bags plastics textile, plastic-coated or lined rubber textile, rubberized</p> <p>Receptacles metal plastics <del>wood</del></p>	<p><i>Outer packagings</i></p> <p>Drums <del>other metal (1N1, 1N2)</del> plastics, <del>removable head (1H1, 1H2)</del> steel, <del>removable head (1A1, 1A2)</del></p>
<p><b>PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS:</b></p> <ul style="list-style-type: none"> <li>— The intermediate packagings must be filled with water-saturated material such as an anti-freeze solution or wetted cushioning.</li> <li>— Outer packagings must be filled with water-saturated material such as an anti-freeze solution or wetted cushioning. Outer packagings must be constructed and sealed to prevent evaporation of the wetting solution, except when UN 0224 is being carried dry.</li> </ul>		
<p>b) <i>Inner packagings</i></p> <p>Bags plastics, conductive rubber, conductive</p> <p>Receptacles metal plastics, conductive rubber, conductive wood</p>	<p><i>Intermediate packagings</i></p> <p>Dividing partitions fibreboard metal plastics wood</p>	<p><i>Outer packagings</i></p> <p>Boxes natural wood, with sift-proof walls (4C2) plywood (4D) reconstituted wood (4F)</p>
<p><b>PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS:</b></p> <p>For UN 0074, 0113, 0114, 0129, 0130, 0135 and 0224, the following conditions must be satisfied:</p> <ol style="list-style-type: none"> <li>a) inner packagings must not contain more than 50 g of explosive substance (quantity corresponding to dry substance);</li> <li>b) compartments between dividing partitions must not contain more than one inner packaging, firmly fitted; and</li> <li>c) the outer packaging must be partitioned into up to 25 compartments.</li> </ol>		

111	PACKING INSTRUCTION 111 (UN packing method EP 11)	111
<p><i>Inner packagings</i></p> <p>Bags paper, waterproofed plastics textile, rubberized</p> <p><u>Receptacles</u> <u>wood</u></p> <p>Sheets plastics textile, rubberized</p>	<p><i>Intermediate packagings</i></p> <p>Not necessary</p>	<p><i>Outer packagings</i></p> <p>Boxes aluminium (4B) expanded plastics (4H1) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with sift-proof walls (4C2) <u>other metal (4N)</u> plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A)</p> <p>Drums aluminium, <del>removable head</del> (1B1, 1B2) fibreboard (1G) <u>other metal (1N1, 1N2)</u> plastics, <del>removable head</del> (1H1, 1H2) plywood (1D) steel, <del>removable head</del> (1A1, 1A2)</p>
<p><b>PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS:</b></p> <hr/> <p>Corrigendum to UN Model Regulations (Seventeenth revised Edition) ST/SG/AC.20/1/Rev.17/Corr.1:</p> <hr/> <p>— For UN 0159, inner packagings are not required when metal (<u>1A1</u>, 1A2, <del>1B1</del>, <del>or</del> 1B2, <u>1N1 or 1N2</u>) or plastics (<u>1H1</u> <del>or</del> 1H2) drums are used as outer packagings.</p>		

DGP/23-WP/3, paragraph 3.3.1:

112	PACKING INSTRUCTION 112 (UN packing method EP 12)	112
<p>a) solid wetted 1.1D</p>		
<p><i>Inner packagings</i></p> <p>Bags paper, multiwall, water-resistant <u>plastics</u> textile textile, rubberized woven plastics</p> <p>Receptacles metal plastics <u>wood</u></p>	<p><i>Intermediate packagings</i></p> <p>Bags plastics textile, plastic-coated or lined</p> <p>Receptacles metal plastics <u>wood</u></p>	<p><i>Outer packagings</i></p> <p>Boxes aluminium (4B) expanded plastics (4H1) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with sift-proof walls (4C2) <u>other metal (4N)</u> plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A)</p> <p>Drums aluminium, <del>removable head</del> (1B1, 1B2) fibre (1G) <u>other metal (1N)</u> plastics, <del>removable head</del> (1H1, 1H2) steel, <del>removable head</del> (1A1, 1A2)</p>

**PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS:**

- For UN 0004, 0076, 0078, 0154, 0219 and 0394, packagings must be lead-free.
- Intermediate packagings are not required if leakproof drums are used as the outer packaging.
- For UN 0072 and UN 0226, intermediate packagings are not required.

## b) solid dry, other than powder 1.1D

*Inner packagings*

## Bags

paper, kraft  
 paper, multiwall, water-resistant  
 plastics  
 textile  
 textile, rubberized  
 woven plastics

*Intermediate packagings*

## Bags (for 0150 only)

plastics  
 textile, plastic-coated or lined

*Outer packagings*

## Bags

paper, multiwall, water-resistant (5M2)  
 plastics, film (5H4)  
 textile, sift-proof (5L2)  
 textile, water-resistant (5L3)  
 woven plastics, sift-proof (5H2)  
woven plastics, water-resistant (5H3)

## Boxes

aluminium (4B)  
 expanded plastics (4H1)  
 fibreboard (4G)  
 natural wood, ordinary (4C1)  
 natural wood, ~~with sift-proof walls~~ (4C2)  
other metal (4N)  
 plywood (4D)  
 reconstituted wood (4F)  
 solid plastics (4H2)  
 steel (4A)

## Drums

aluminium, ~~removable head~~ (1B1, 1B2)  
 fibre (1G)  
other metal (1N1, 1N2)  
 plastics, removable head (1H2)  
 steel, ~~removable head~~ (1A1, 1A2)

**PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS:**

- For UN 0004, 0076, 0078, 0154, 0216, 0219 and 0386, packagings must be lead-free.
- For UN 0209, bags, sift-proof (5H2) are recommended for flake or prilled TNT in the dry state and a maximum net mass of 30 kg.
- For UN 0222 and UN 0223, inner packagings are not required when the outer packaging is a bag.

c) for solid dry powder 1.1D		
<i>Inner packagings</i>	<i>Intermediate packagings</i>	<i>Outer packagings</i>
Bags paper, multiwall, water-resistant plastics woven plastics Receptacles fibreboard metal plastics wood	Bags (for 1050 only) paper, multiwall, water-resistant with inner lining plastics Receptacles metal plastics <u>wood</u>	Boxes fibreboard (4G) <del>other metal (4N)</del> natural wood, ordinary (4C1) natural wood, with sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A) Drums aluminium, <del>removable head</del> (1B1, 1B2) fibre (1G) <del>other metal (1N1, 1N2)</del> <del>steel, removable head</del> (1A1, 1A2)
<b>PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS:</b>		
<ul style="list-style-type: none"> <li>— For UN 0004, 0076, 0078, 0154, 0216, 0219 and 0386, packagings must be lead-free.</li> <li>— For UN 0209, bags, sift-proof (5H2) are recommended for flake or prilled TNT in the dry state and a maximum net mass of 30 kg.</li> <li>— Inner packagings are not required if drums are used as the outer packaging.</li> <li>— These packages must be sift-proof.</li> </ul>		

113	<b>PACKING INSTRUCTION 113</b> (UN packing method EP 13)	113
<i>Inner packagings</i>	<i>Intermediate packagings</i>	<i>Outer packagings</i>
Bags paper plastics textile, rubberized Receptacles fibreboard metal plastics wood Sheets paper, kraft paper, waxed	Not necessary	Boxes <del>aluminium (4B)</del> fibreboard (4G) natural wood, ordinary (4C1) natural wood, with sift-proof walls (4C2) <del>other metal (4N)</del> plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A) Drums aluminium, <del>removable head</del> (1B1, 1B2) fibre (1G) <del>other metal (1N1, 1N2)</del> <del>steel, removable head</del> (1A1, 1A2)
<b>PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS:</b>		
<ul style="list-style-type: none"> <li>— For UN 0094 and UN 0305, no more than 50 g of substance must be packed in an inner packaging.</li> <li>— For UN 0027, inner packagings are not necessary when drums are used as the outer packaging.</li> <li>— Packages must be sift-proof.</li> <li>— Sheets may only be used for UN 0028.</li> </ul>		

115	PACKING INSTRUCTION 115 (UN packing method EP 15)	115
<i>Inner packagings</i>  Receptacles metal plastics <u>wood</u>	<i>Intermediate packagings</i>  Bags plastics in metal receptacles Drums metal <u>Receptacles</u> <u>wood</u>	<i>Outer packagings</i>  Boxes fibreboard (4G) natural wood, ordinary (4C1) natural wood, with sift-proof walls (4C2) <u>other metal (4N)</u> plywood (4D) reconstituted wood (4F)  Drums aluminium, <del>removable head</del> (1B1, 1B2) fibre (1G) <u>other metal (1N1, 1N2)</u> plywood (1D) steel, <del>removable head</del> (1A1, 1A2)
<p><b>PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS:</b></p> <ul style="list-style-type: none"> <li>— For UN 0075, 0143, 0495 and 0497 when boxes are used as the outer packaging, inner packagings must have taped screw cap closures and be not more than 5 litres capacity each. Inner packagings must be surrounded with non-combustible absorbent cushioning materials. The amount of absorbent cushioning material must be sufficient to absorb the liquid contents. Metal receptacles must be cushioned from each other. Net mass of propellant is limited to 30 kg for each package when outer packagings are boxes.</li> <li>— For UN 0075, 0143, 0495 and 0497 when drums are used as the outer packaging and when intermediate packagings are drums, they must be surrounded with non-combustible cushioning material in a quantity sufficient to absorb the liquid contents. A composite packaging consisting of a plastic receptacle in a metal drum may be used instead of the inner and intermediate packagings. The net volume of propellant in each package must not exceed 120 litres.</li> <li>— For UN 0144, absorbent cushioning material must be inserted.</li> <li>— Metal receptacles as inner packagings must only be used for UN 0144.</li> <li>— For UN 0075, 0143, 0495 and 0497, bags are to be used as intermediate packagings when boxes are used as outer packagings.</li> <li>— For UN 0075, 0143, 0495 and 0497, drums are to be used as intermediate packagings when drums are used as outer packagings.</li> <li>— For UN 0144, intermediate packagings are not necessary.</li> <li>— Fibreboard boxes (4G) should only be used for UN 0144.</li> <li>— For UN 0144, aluminium drums, <del>removable head</del> (1B1 and 1B2) <u>and metal, other than steel or aluminium, drums (1N1 and 1N2)</u>, are not <del>allowed</del> <u>permitted</u>.</li> </ul>		



116	PACKING INSTRUCTION 116 (UN packing method EP 16)	116
<p><i>Inner packagings</i></p> <p>Bags paper, water and oil resistant plastics textile, plastic-coated or lined woven plastics, sift-proof</p> <p>Receptacles fibreboard, water-resistant metal plastics wood, sift-proof</p> <p>Sheets paper, water-resistant paper, waxed plastics</p>	<p><i>Intermediate packagings</i></p> <p>Not necessary</p>	<p><i>Outer packagings</i></p> <p>Bags paper, multiwall, water-resistant (5M2) plastics, film (5H4) textile, sift-proof (5L2) textile, water-resistant (5L3) woven plastics (5H1/2/3)</p> <p>Boxes aluminium (4B) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with sift-proof walls (4C2) <del>other metal (4N)</del> plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A)</p> <p>Drums aluminium, <del>removable head</del> (1B1, 1B2) fibre (1G) <del>other metal (1N1, 1N2)</del> plastics, <del>removable head</del> (1H1, 1H2) steel, <del>removable head</del> (1A1, 1A2)</p> <p>Jerricans plastics, <del>removable head</del> (3H1, 3H2) steel, <del>removable head</del> (3A1, 3A2)</p>
<p><b>PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS:</b></p> <ul style="list-style-type: none"> <li>— For UN 0082, 0241, 0331 and 0332, inner packagings are not necessary if leakproof, removable head drums are used as the outer packaging.</li> <li>— For UN 0082, 0241, 0331 and 0332, inner packagings are not required when the explosive is contained in a material impervious to liquid.</li> <li>— For UN 0081, inner packagings are not required when contained in rigid plastic which is impervious to nitric esters.</li> <li>— UN 0331, inner packagings are not required when bags (5H2), (5H3) or (5H4) are used as outer packagings.</li> <li>— Bags (5H2 or 5H3) should be used only for UN 0082, 0241, 0331 and 0332.</li> <li>— For UN 0081, bags must not be used as outer packagings.</li> </ul>		

132	PACKING INSTRUCTION 132 (UN packing method EP 32)	132
<p>a) Articles consisting of closed metal, plastic or fibreboard casings that contain a detonating explosive, or consisting of plastic-bonded detonating explosives</p>		
<p><i>Inner packagings</i></p> <p>Not necessary</p>	<p><i>Intermediate packagings</i></p> <p>Not necessary</p>	<p><i>Outer packagings</i></p> <p>Boxes aluminium (4B) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with sift-proof walls (4C2) <del>other metal (4N)</del> plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A)</p>

b) Articles without closed casings		
<i>Inner packagings</i>	<i>Intermediate packagings</i>	<i>Outer packagings</i>
Receptacles fibreboard metal plastics <u>wood</u> Sheets paper plastics	Not necessary	Boxes aluminium (4B) fibreboard (4G) natural wood, ordinary (4C1) natural wood, with sift-proof walls (4C2) <u>other metal (4N)</u> plywood (4D) reconstituted wood (4F) solid plastics (4H2) steel (4A)

<b>144</b>	<b>PACKING INSTRUCTION 144</b>	<b>144</b>
<b>(UN packing method EP 44)</b>		
<i>Inner packagings</i>	<i>Intermediate packagings</i>	<i>Outer packagings</i>
Receptacles fibreboard metal <u>wood</u> plastics Dividing partitions in the outer packagings	Not necessary	Boxes aluminium (4B) expanded plastics (4H1) natural wood, ordinary (4C1) with metal liner <u>other metal (4N)</u> plywood (4D) with metal liner reconstituted wood (4F) with metal liner steel (4A)
<b>PARTICULAR PACKING REQUIREMENTS OR EXCEPTIONS:</b>		
— For UN 0248 and UN 0249, packagings must be protected against the ingress of water. When CONTRIVANCES, WATER ACTIVATED are transported unpackaged, they must be provided with at least two independent protective features which prevent the ingress of water.		

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## Chapter 5

### CLASS 3 — FLAMMABLE LIQUIDS

306	PACKING INSTRUCTION 306	306
The general packing requirements of Part 4, Chapter 1 of the Technical Instructions must be met.		
Single packagings are not permitted.		
<b>COMBINATION PACKAGINGS:</b>		
...		
<i>OUTER:</i>		
<i>Boxes</i>	<i>Drums</i>	<i>Jerricans</i>
fibreboard (4G) <u>other metal (4N)</u> plywood (4D) reconstituted wood (4F) solid plastics (4H2) wooden (4C1, 4C2)	aluminium ( <u>1B1</u> , 1B2) fibre (1G) plastics (1H2) plywood (1D) steel ( <u>1A1</u> , 1A2)	plastics ( <u>3H1</u> , 3H2) steel ( <u>3A1</u> , 3A2)
...		

## Chapter 6

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

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416	PACKING INSTRUCTION 416	416						
<p>The general packing requirements of Part 4, Chapter 1 of the Technical Instructions must be met. Single packagings are not permitted.</p> <p><b>COMBINATION PACKAGINGS:</b></p> <p>...</p> <p><i>OUTER:</i></p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; width: 33%;"><i>Boxes</i></th> <th style="text-align: left; width: 33%;"><i>Drums</i></th> <th style="text-align: left; width: 33%;"><i>Jerricans</i></th> </tr> </thead> <tbody> <tr> <td>           fibreboard (4G)  <u>other metal (4N)</u>            plywood (4D)            reconstituted wood (4F)            solid plastics (4H2)            wooden (4C1, 4C2)         </td> <td>           aluminium (<u>1B1</u>, 1B2)            fibre (1G)            plastics (<u>1H1</u>, 1H2)            plywood (1D)            steel (<u>1A1</u>, 1A2)         </td> <td>           plastics (<u>3H1</u>, 3H2)            steel (<u>3A1</u>, 3A2)         </td> </tr> </tbody> </table> <p>...</p>			<i>Boxes</i>	<i>Drums</i>	<i>Jerricans</i>	fibreboard (4G) <u>other metal (4N)</u> plywood (4D) reconstituted wood (4F) solid plastics (4H2) wooden (4C1, 4C2)	aluminium ( <u>1B1</u> , 1B2) fibre (1G) plastics ( <u>1H1</u> , 1H2) plywood (1D) steel ( <u>1A1</u> , 1A2)	plastics ( <u>3H1</u> , 3H2) steel ( <u>3A1</u> , 3A2)
<i>Boxes</i>	<i>Drums</i>	<i>Jerricans</i>						
fibreboard (4G) <u>other metal (4N)</u> plywood (4D) reconstituted wood (4F) solid plastics (4H2) wooden (4C1, 4C2)	aluminium ( <u>1B1</u> , 1B2) fibre (1G) plastics ( <u>1H1</u> , 1H2) plywood (1D) steel ( <u>1A1</u> , 1A2)	plastics ( <u>3H1</u> , 3H2) steel ( <u>3A1</u> , 3A2)						

418	PACKING INSTRUCTION 418	418						
<p>The general packing requirements of Part 4, Chapter 1 of the Technical Instructions must be met. Single packagings are not permitted.</p> <p><b>COMBINATION PACKAGINGS:</b></p> <p>...</p> <p><i>OUTER:</i></p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; width: 33%;"><i>Boxes</i></th> <th style="text-align: left; width: 33%;"><i>Drums</i></th> <th style="text-align: left; width: 33%;"><i>Jerricans</i></th> </tr> </thead> <tbody> <tr> <td>           fibreboard (4G)            plywood (4D)  <u>other metal (4N)</u>            reconstituted wood (4F)            solid plastics (4H2)            wooden (4C1, 4C2)         </td> <td>           aluminium (<u>1B1</u>, 1B2)            fibre (1G)            plastics (<u>1H1</u>, 1H2)            plywood (1D)            steel (1A2)         </td> <td>           plastics (<u>3H1</u>, 3H2)            steel (<u>3A1</u>, 3A2)         </td> </tr> </tbody> </table> <p>...</p>			<i>Boxes</i>	<i>Drums</i>	<i>Jerricans</i>	fibreboard (4G) plywood (4D) <u>other metal (4N)</u> reconstituted wood (4F) solid plastics (4H2) wooden (4C1, 4C2)	aluminium ( <u>1B1</u> , 1B2) fibre (1G) plastics ( <u>1H1</u> , 1H2) plywood (1D) steel (1A2)	plastics ( <u>3H1</u> , 3H2) steel ( <u>3A1</u> , 3A2)
<i>Boxes</i>	<i>Drums</i>	<i>Jerricans</i>						
fibreboard (4G) plywood (4D) <u>other metal (4N)</u> reconstituted wood (4F) solid plastics (4H2) wooden (4C1, 4C2)	aluminium ( <u>1B1</u> , 1B2) fibre (1G) plastics ( <u>1H1</u> , 1H2) plywood (1D) steel (1A2)	plastics ( <u>3H1</u> , 3H2) steel ( <u>3A1</u> , 3A2)						

421	<b>PACKING INSTRUCTION 421</b>	421																								
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## Chapter 7

**CLASS 5 — OXIDIZING SUBSTANCES;  
ORGANIC PEROXIDES**

501	PACKING INSTRUCTION 501	501									
<p>The general packing requirements of Part 4, Chapter 1 of the Technical Instructions must be met.</p> <p>Single packagings are not permitted.</p> <p><b>COMBINATION PACKAGINGS:</b></p> <p>...</p> <p><i>OUTER:</i></p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; width: 33%;"><i>Boxes</i></th> <th style="text-align: left; width: 33%;"><i>Drums</i></th> <th style="text-align: left; width: 33%;"><i>Jerricans</i></th> </tr> </thead> <tbody> <tr> <td>           fibreboard (4G)            plywood (4D)  <u>other metal (4N)</u>            reconstituted wood (4F)            solid plastics (4H2)            wooden (4C1, 4C2)         </td> <td>           aluminium (<u>1B1</u>, 1B2)            fibre (1G)            plastics (<u>1H1</u>, 1H2)            plywood (1D)            steel (<u>1A1</u>, 1A2)         </td> <td>           plastics (<u>3H1</u>, 3H2)            steel (<u>3A1</u>, 3A2)         </td> </tr> <tr> <td colspan="3">...</td> </tr> </tbody> </table>			<i>Boxes</i>	<i>Drums</i>	<i>Jerricans</i>	fibreboard (4G) plywood (4D) <u>other metal (4N)</u> reconstituted wood (4F) solid plastics (4H2) wooden (4C1, 4C2)	aluminium ( <u>1B1</u> , 1B2) fibre (1G) plastics ( <u>1H1</u> , 1H2) plywood (1D) steel ( <u>1A1</u> , 1A2)	plastics ( <u>3H1</u> , 3H2) steel ( <u>3A1</u> , 3A2)	...		
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...

## Chapter 8

## CLASS 6 — TOXIC AND INFECTIOUS SUBSTANCES

610	PACKING INSTRUCTION 610	610						
<p>The general packing requirements of Part 4, Chapter 1 of the Technical Instructions must be met.</p> <p>Single packagings are not permitted.</p> <p><b>COMBINATION PACKAGINGS:</b></p> <p>...</p> <p><i>OUTER:</i></p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; width: 33%;"><i>Boxes</i></th> <th style="text-align: left; width: 33%;"><i>Drums</i></th> <th style="text-align: left; width: 33%;"><i>Jerricans</i></th> </tr> </thead> <tbody> <tr> <td>           fibreboard (4G)  <u>other metal (4N)</u>            plywood (4D)            reconstituted wood (4F)            solid plastics (4H2)            wooden (4C1, 4C2)         </td> <td>           aluminium (<u>1B1</u>, 1B2)            fibre (1G)            plastics (<u>1H1</u>, 1H2)            plywood (1D)            steel (<u>1A1</u>, 1A2)         </td> <td>           plastics (<u>3H1</u>, 3H2)            steel (<u>3A1</u>, 3A2)         </td> </tr> </tbody> </table> <p>...</p>			<i>Boxes</i>	<i>Drums</i>	<i>Jerricans</i>	fibreboard (4G) <u>other metal (4N)</u> plywood (4D) reconstituted wood (4F) solid plastics (4H2) wooden (4C1, 4C2)	aluminium ( <u>1B1</u> , 1B2) fibre (1G) plastics ( <u>1H1</u> , 1H2) plywood (1D) steel ( <u>1A1</u> , 1A2)	plastics ( <u>3H1</u> , 3H2) steel ( <u>3A1</u> , 3A2)
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614

PACKING INSTRUCTION 614

614

The general packing requirements of Part 4, Chapter 1 of the Technical Instructions must be met.

Single packagings are not permitted.

**COMBINATION PACKAGINGS:**

...

*OUTER:*

*Boxes*

fibreboard (4G)  
other metal (4N)  
plywood (4D)  
reconstituted wood (4F)  
solid plastics (4H2)  
wooden (4C1, 4C2)

*Drums*

aluminium (1B1, 1B2)  
fibre (1G)  
plywood (1D)  
steel (1A1, 1A2)

*Jerricans*

steel (3A1, 3A2)

## Chapter 10

## CLASS 8 — CORROSIVES

Corrigendum to UN Model Regulations  
(Seventeenth revised Edition)  
ST/SG/AC.20/1/Rev.17/Corr.1:

807	PACKING INSTRUCTION 807	807						
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DGP/23-WP/3, paragraph 3.3.1:

809	PACKING INSTRUCTION 809	809						
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...

**Part S-7**

**STATE'S RESPONSIBILITIES**

...

**Chapter 2**

**STORAGE AND LOADING**

...

DGP/23-WP/3, paragraph 3.3.3:

**2.3 Separation of explosive substances and articles**

*Note.— The safety of explosive substances and articles would be enhanced by transporting each kind separately, but consideration of practicability and economics preclude such an ideal. In practice, a proper balance of the interest of safety against the other relevant factors necessitates a degree of mixing in the transport of explosive substances and articles of several kinds.*

2.3.1 The extent to which explosives of Class 1 may be loaded together in transport is determined by the "compatibility" of the explosives. Explosives of Class 1 are considered to be compatible if they can be transported together without significantly increasing either the probability of an accident or, for a given quantity, the magnitude of the effects of such an accident.

2.3.2 Explosives in Compatibility Groups A to K and N may be transported in accordance with the following provisions:

a) packages bearing the same Compatibility Group letter may be stowed together regardless of the division number;

b) packages bearing different Compatibility Group letters must not in general be stowed together (regardless of the division number) except in the case of Compatibility Group letters C, D, E and S as explained in 2.3.3 and 2.3.4 below.

2.3.3 Explosives in Compatibility Groups C, D, E may be stowed together.

2.3.4 Explosives in Compatibility Group S may be stowed with explosives in all compatibility groups other than A and L.

2.3.5 Explosives in Compatibility Group L must not be transported with explosives in other compatibility groups. Furthermore, explosives in Compatibility Group L may only be transported with the same type of explosives within Compatibility Group L.

2.3.6 Table S-7-1 provides guidance for the separation of packages containing explosives with different compatibility groups. An "X" at the intersection of a row and column indicates that explosives of these compatibility groups must be separated. The method of separation (e.g. the minimum distance between incompatible explosives and/or separation of incompatible explosives with other cargo) must be approved by the competent authority, taking into account the danger of transmission of detonation between the different explosives.

**Table S-7-1. Separation of explosive substances and articles**

<u>Compatibility group</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>N</u>	<u>S</u>
<u>A</u>		X	X	X	X	X	X	X	X	X	X	X	X
<u>B</u>	X		X	X	X	X	X	X	X	X	X	X	
<u>C</u>	X	X				X	X	X	X	X	X	X	
<u>D</u>	X	X				X	X	X	X	X	X	X	
<u>E</u>	X	X				X	X	X	X	X	X	X	
<u>F</u>	X	X	X	X	X		X	X	X	X	X	X	
<u>G</u>	X	X	X	X	X	X		X	X	X	X	X	
<u>H</u>	X	X	X	X	X	X	X		X	X	X	X	
<u>J</u>	X	X	X	X	X	X	X	X		X	X	X	
<u>K</u>	X	X	X	X	X	X	X	X	X		X	X	
<u>L</u>	X	X	X	X	X	X	X	X	X	X	1)	X	X
<u>N</u>	X	X	X	X	X	X	X	X	X	X	X		
<u>S</u>	X										X		

1) see 2.3.5 above.

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