



**РАБОЧИЙ ДОКУМЕНТ**

**ГРУППА ЭКСПЕРТОВ ПО ОПАСНЫМ ГРУЗАМ (DGP)**

**ДВАДЦАТЬ ТРЕТЬЕ СОВЕЩАНИЕ**

**Монреаль, 11–21 октября 2011 года**

**Пункт 3 повестки дня.** **Разработка рекомендаций относительно поправок к дополнению к *Техническим инструкциям по безопасной перевозке опасных грузов по воздуху* (Дос 9284) в целях их внесения в издание 2013–2014 гг.**

**ПЕРЕСМОТР ИНФОРМАЦИИ, КАСАЮЩЕЙСЯ ОПАСНЫХ ГРУЗОВ КЛАССА 1**

(Представлено Дж. Маклафлин)

**ДОБАВЛЕНИЕ/ИСПРАВЛЕНИЕ**

На с. С-2 документа DGP/23-WP/29 слово "– END –" *заменить* на "— — — — —".

В документ DGP/23-WP/29 *внести* добавление D (прилагается).

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**APPENDIX D**

**EXTRACT FROM THE 17TH EDITION OF THE UN MODEL REGULATIONS**



P099	PACKING INSTRUCTION	P099
Only packagings which are approved by the competent authority for these goods may be used (see 4.1.3.7). A copy of the competent authority approval shall accompany each consignment or the transport document shall include an indication that the packaging was approved by the competent authority.		

P101	PACKING INSTRUCTION	P101
Only packagings which are approved by the competent authority may be used. The State's distinguishing sign for motor vehicles in international traffic of the country for which the authority acts, shall be marked on the transport documents as follows:		
“Packaging approved by the competent authority of...”		

P110(a)	PACKING INSTRUCTION		P110(a)
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:			
Inner packagings	Intermediate packagings	Outer packagings	
<b>Bags</b> plastics textile, plastic coated or lined  rubber textile, rubberised textile <b>Receptacles</b> wood	<b>Bags</b> plastics textile, plastic coated or lined  rubber textile, rubberized <b>Receptacles</b> plastics metal wood	<b>Drums</b> steel (1A1, 1A2) metal, other than steel or aluminium (1N1, 1N2) plastics (1H1, 1H2)	
<b>Additional requirements:</b>			
1. The intermediate packagings shall be filled with water saturated material such as an anti-freeze solution or wetted cushioning.			
2. Outer packagings shall be filled with water saturated material such as an anti-freeze solution or wetted cushioning. Outer packagings shall be constructed and sealed to prevent evaporation of the wetting solution, except for UN 0224 when carried dry.			

P110(b)	PACKING INSTRUCTION		P110(b)
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:			
Inner packagings	Intermediate packagings	Outer packagings	
<b>Receptacles</b> metal wood rubber, conductive plastics, conductive <b>Bags</b> rubber, conductive plastics, conductive	<b>Dividing partitions</b> metal wood plastics fibreboard	<b>Boxes</b> natural wood, sift-proof wall (4C2) plywood (4D) reconstituted wood (4F)	
<b>Special packing provision:</b>			
<b>PP42</b> For UN Nos. 0074, 0113, 0114, 0129, 0130, 0135 and 0224, the following conditions shall be met:			
(a) Inner packagings shall not contain more than 50 g of explosive substance (quantity corresponding to dry substance);			
(b) Compartments between dividing partitions shall not contain more than one inner packaging, firmly fitted; and			
(c) The outer packaging may be partitioned into up to 25 compartments.			

P111	PACKING INSTRUCTION		P111
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:			
Inner packagings	Intermediate packagings	Outer packagings	
<b>Bags</b> paper, waterproofed plastics textile, rubberized <b>Receptacles</b> wood <b>Sheets</b> plastics textile, rubberized	Not necessary	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, expanded (4H1) plastics, solid (4H2) <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)	
<b>Special packing provision:</b> <b>PP43</b> For UN 0159, inner packagings are not required when metal (1A2 or 1B2) or plastics (1H2) drums are used as outer packagings.			

P112(a)	PACKING INSTRUCTION (Solid wetted, 1.1D)		P112(a)
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:			
Inner packagings	Intermediate packagings	Outer packagings	
<b>Bags</b> paper, multiwall, water resistant textile textile, rubberised woven plastics  <b>Receptacles</b> metal plastics wood	<b>Bags</b> plastics textile, plastic coated or lined  <b>Receptacles</b> metal plastics wood	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, expanded (4H1) plastics, solid (4H2) <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)	
<b>Additional requirement:</b> Intermediate packagings are not required if leakproof removable head drums are used as the outer packaging.			
<b>Special packing provisions:</b> <b>PP26</b> For UN Nos. 0004, 0076, 0078, 0154, 0219 and 0394, packagings shall be lead free. <b>PP45</b> For UN 0072 and UN 0226, intermediate packagings are not required.			

<b>P112(b) PACKING INSTRUCTION P112(b)</b> (Solid dry, other than powder 1.1D)		
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
<b>Inner packagings</b>	<b>Intermediate packagings</b>	<b>Outer packagings</b>
<b>Bags</b> paper, kraft paper, multiwall, water resistant plastics textile textile, rubberised woven plastics	<b>Bags (for UN 0150 only)</b> plastics textile, plastic coated or lined	<b>Bags</b> woven plastics, sift-proof (5H2) woven plastics, water-resistant (5H3) plastics, film (5H4) textile, sift-proof (5L2) textile, water resistant (5L3) paper, multiwall, water resistant (5M2) <b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, expanded (4H1) plastics, solid (4H2) <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)
<b>Special packing provisions:</b> <b>PP26</b> For UN Nos. 0004, 0076, 0078, 0154, 0216, 0219 and 0386, packagings shall be lead free. <b>PP46</b> 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. <b>PP47</b> For UN 0222 inner packagings are not required when the outer packaging is a bag.		

P112(c)	<b>PACKING INSTRUCTION</b> (Solid dry powder 1.1D)		P112(c)
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:			
Inner packagings	Intermediate packagings	Outer packagings	
<b>Bags</b> paper, multiwall, water resistant plastics woven plastics  <b>Receptacles</b> fibreboard metal plastics wood	<b>Bags</b> paper, multiwall, water resistant with inner lining plastics  <b>Receptacles</b> metal plastics wood	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, solid (4H2)  <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)	
<b>Additional requirements:</b> 1. Inner packagings are not required if drums are used as the outer packaging. 2. The packaging shall be sift-proof.			
<b>Special packing provision:</b> <b>PP26</b> For UN Nos. 0004, 0076, 0078, 0154, 0216, 0219 and 0386, packagings shall be lead free. <b>PP46</b> 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. <b>PP48</b> For UN 0504, metal packagings shall not be used.			

P113		PACKING INSTRUCTION		P113
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:				
Inner packagings		Intermediate packagings		Outer packagings
<b>Bags</b> paper plastics textile, rubberised  <b>Receptacles</b> fibreboard metal plastics wood		Not necessary		<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, solid (4H2)  <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)
<b>Additional requirement:</b>				
The packaging shall be sift-proof.				
<b>Special packing provisions:</b>				
<b>PP49</b> For UN 0094 and UN 0305, no more than 50 g of substance shall be packed in an inner packaging.				
<b>PP50</b> For UN 0027, inner packagings are not necessary when drums are used as the outer packaging.				
<b>PP51</b> For UN 0028, paper kraft or waxed paper sheets may be used as inner packagings.				



P114(a)	<b>PACKING INSTRUCTION</b> (Solid wetted)		P114(a)
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:			
Inner packagings	Intermediate packagings	Outer packagings	
<b>Bags</b> plastics woven plastics  <b>Receptacles</b> metal plastics wood	<b>Bags</b> plastics  <b>Receptacles</b> metal plastics  <b>Dividing partitions</b> wood	<b>Boxes</b> steel (4A) metal, other than steel or aluminium (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, solid (4H2)  <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) fibre (1G) plastics (1H1, 1H2)	
<b>Additional requirement:</b>			
Intermediate packagings are not required if leakproof removable head drums are used as the outer packaging.			
<b>Special packing provisions:</b>			
<b>PP26</b> For UN Nos. 0077, 0132, 0234, 0235 and 0236, packagings shall be lead free.			
<b>PP43</b> For UN 0342, inner packagings are not required when metal (1A2, 1B2 or 1N2) or plastics (1H2) drums are used as outer packagings.			

<b>P114(b) PACKING INSTRUCTION (Solid dry) P114(b)</b>		
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
<b>Inner packagings</b>	<b>Intermediate packagings</b>	<b>Outer packagings</b>
<b>Bags</b> paper, kraft plastics textile, sift-proof woven plastics, sift-proof  <b>Receptacles</b> fibreboard metal paper woven plastics, sift-proof wood	Not necessary	<b>Boxes</b> natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G)  <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)
<b>Special packing provisions:</b>		
<b>PP26</b> For UN Nos. 0077, 0132, 0234, 0235 and 0236, packagings shall be lead free.		
<b>PP48</b> For UN Nos. 0508 and 0509, metal packagings shall not be used.		
<b>PP50</b> For UN Nos. 0160, 0161 and 0508, inner packagings are not necessary if drums are used as the outer packaging.		
<b>PP52</b> For UN 0160 and UN 0161, when metal drums (1A1, 1A2, 1B1, 1B2, 1N1 or 1N2) are used as the outer packaging, metal packagings shall be so constructed that the risk of explosion, by reason of increase internal pressure from internal or external causes is prevented.		

PACKING INSTRUCTION		
P115		P115
<p>The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:</p>		
Inner packagings	Intermediate packagings	Outer packagings
<p><b>Receptacles</b>            plastics            wood</p>	<p><b>Bags</b>            plastics in metal receptacles</p> <p><b>Drums</b>            metal</p> <p><b>Receptacles</b>            wood</p>	<p><b>Boxes</b>            natural wood, ordinary (4C1)            natural wood, sift-proof walls (4C2)            plywood (4D)            reconstituted wood (4F)</p> <p><b>Drums</b>            steel (1A1, 1A2)            aluminium (1B1, 1B2)            other metal (1N1, 1N2)            plywood (1D)            fibre (1G)            plastics (1H1, 1H2)</p>
<p><b>Special packing provisions:</b></p> <p><b>PP45</b> For UN 0144, intermediate packagings are not required.</p> <p><b>PP53</b> For UN Nos. 0075, 0143, 0495 and 0497, when boxes are used as the outer packaging, inner packagings shall have taped screw cap closures and be not more than 5 litres capacity each. Inner packagings shall be surrounded with non-combustible absorbent cushioning materials. The amount of absorbent cushioning material shall be sufficient to absorb the liquid contents. Metal receptacles shall be cushioned from each other. Net mass of propellant is limited to 30 kg for each package when outer packagings are boxes.</p> <p><b>PP54</b> For UN Nos. 0075, 0143, 0495 and 0497, when drums are used as the outer packaging and when intermediate packagings are drums, they shall 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 shall not exceed 120 litres.</p> <p><b>PP55</b> For UN 0144, absorbent cushioning material shall be inserted.</p> <p><b>PP56</b> For UN 0144, metal receptacles may be used as inner packagings.</p> <p><b>PP57</b> For UN Nos. 0075, 0143, 0495 and 0497, bags shall be used as intermediate packagings when boxes are used as outer packagings.</p> <p><b>PP58</b> For UN Nos. 0075, 0143, 0495 and 0497, drums shall be used as intermediate packagings when drums are used as outer packagings.</p> <p><b>PP59</b> For UN 0144, fibreboard boxes (4G) may be used as outer packagings.</p> <p><b>PP60</b> For UN 0144, aluminium drums (1B1 and 1B2) and metal, other than steel or aluminium, drums (1N1 and 1N2) shall not be used.</p>		

P116		PACKING INSTRUCTION		P116
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:				
Inner packagings		Intermediate packagings		Outer packagings
<b>Bags</b> paper, water and oil resistant plastics textile, plastic coated or lined woven plastics, sift-proof <b>Receptacles</b> fibreboard, water resistant metal plastics <b>Sheets</b> paper, water resistant paper, waxed plastics		Not necessary		<b>Bags</b> woven plastics (5H1) paper, multiwall, water resistant (5M2) plastics, film (5H4) textile, sift-proof (5L2) textile, water resistant (5L3) <b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, solid (4H2) <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2) <b>Jerricans</b> steel (3A1, 3A2) plastics (3H1, 3H2)
<b>Special packing provisions:</b>				
<b>PP61</b>	For UN Nos. 0082, 0241, 0331 and 0332, inner packagings are not required if leakproof removable head drums are used as the outer packaging.			
<b>PP62</b>	For UN Nos. 0082, 0241, 0331 and 0332, inner packagings are not required when the explosive is contained in a material impervious to liquid.			
<b>PP63</b>	For UN 0081, inner packagings are not required when contained in rigid plastics which is impervious to nitric esters.			
<b>PP64</b>	For UN 0331, inner packagings are not required when bags (5H2), (5H3) or (5H4) are used as outer packagings.			
<b>PP65</b>	For UN Nos. 0082, 0241, 0331 and 0332, bags (5H2 or 5H3) may be used as outer packagings.			
<b>PP66</b>	For UN 0081, bags shall not be used as outer packagings.			

<b>P130 PACKING INSTRUCTION P130</b>		
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
<b>Inner packagings</b>	<b>Intermediate packagings</b>	<b>Outer packagings</b>
Not necessary	Not necessary	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, expanded (4H1) plastics, solid (4H2)  <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)
<b>Special packing provision:</b>		
<b>PP67</b> The following applies to UN Nos. 0006, 0009, 0010, 0015, 0016, 0018, 0019, 0034, 0035, 0038, 0039, 0048, 0056, 0137, 0138, 0168, 0169, 0171, 0181, 0182, 0183, 0186, 0221, 0243, 0244, 0245, 0246, 0254, 0280, 0281, 0286, 0287, 0297, 0299, 0300, 0301, 0303, 0321, 0328, 0329, 0344, 0345, 0346, 0347, 0362, 0363, 0370, 0412, 0424, 0425, 0434, 0435, 0436, 0437, 0438, 0451, 0488 and 0502: Large and robust explosives articles, normally intended for military use, without their means of initiation or with their means of initiation containing at least two effective protective features, may be carried unpackaged. When such articles have propelling charges or are self-propelled, their ignition systems shall be protected against stimuli encountered during normal conditions of transport. A negative result in Test Series 4 on an unpackaged article indicates that the article can be considered for transport unpackaged. Such unpackaged articles may be fixed to cradles or contained in crates or other suitable handling devices.		

P131 PACKING INSTRUCTION P131		
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
Inner packagings	Intermediate packagings	Outer packagings
<b>Bags</b> paper plastics fibreboard metal plastics wood <b>Reels</b>	Not necessary	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)
<b>Special packing provision:</b> <b>PP68</b> For UN Nos. 0029, 0267 and 0455, bags and reels shall not be used as inner packagings.		

P132(a) PACKING INSTRUCTION P132(a)		
(Articles consisting of closed metal, plastics or fibreboard casings that contain a detonating explosive, or consisting of plastics-bonded detonating explosives)		
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
Inner packagings	Intermediate packagings	Outer packagings
Not necessary	Not necessary	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) wood, natural, ordinary (4C1) wood, natural, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, solid (4H2)

<b>P132(b) PACKING INSTRUCTION P132(b)</b> (Articles without closed casings)		
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
Inner packagings	Intermediate packagings	Outer packagings
<b>Receptacles</b> fibreboard metal plastics wood  <b>Sheets</b> paper plastics	Not necessary	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, solid (4H2)

<b>P133 PACKING INSTRUCTION P133</b>		
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
Inner packagings	Intermediate packagings	Outer packagings
<b>Receptacles</b> fibreboard metal plastics wood  <b>Trays, fitted with dividing partitions</b> fibreboard plastics wood	<b>Receptacles</b> fibreboard metal plastics wood	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, solid (4H2)
<b>Additional requirement:</b> Receptacles are only required as intermediate packagings when the inner packagings are trays.		
<b>Special packing provision:</b> <b>PP69</b> For UN Nos. 0043, 0212, 0225, 0268 and 0306, trays shall not be used as inner packagings.		

P134 PACKING INSTRUCTION P134		
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
Inner packagings	Intermediate packagings	Outer packagings
<b>Bags</b> water resistant <b>Receptacles</b> metal plastics wood <b>Sheets</b> fibreboard, corrugated <b>Tubes</b> fibreboard	Not necessary	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, expanded (4H1) plastics, solid (4H2) <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)

P135 PACKING INSTRUCTION P135		
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
Inner packagings	Intermediate packagings	Outer packagings
<b>Bags</b> paper plastics fibreboard metal plastics wood <b>Sheets</b> paper plastics	Not necessary	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, expanded (4H1) plastics, solid (4H2) <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)



P136 PACKING INSTRUCTION P136		
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
Inner packagings	Intermediate packagings	Outer packagings
<b>Bags</b> plastics textile fibreboard plastics wood  <b>Dividing portions in the outer packagings</b>	Not necessary	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, solid (4H2)  <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)

P137 PACKING INSTRUCTION P137		
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
Inner packagings	Intermediate packagings	Outer packagings
<b>Bags</b> plastics  <b>Boxes</b> fibreboard wood  <b>Tubes</b> fibreboard metal plastics  <b>Dividing partitions in the outer packagings</b>	Not necessary	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G)  <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)
<b>Special packing provision:</b> <b>PP70</b> For UN Nos. 0059, 0439, 0440 and 0441, when the shaped charges are packed singly, the conical cavity shall face downwards and the package marked "THIS SIDE UP". When the shaped charges are packed in pairs, the conical cavities shall face inwards to minimize the jetting effect in the event of accidental initiation.		

PACKING INSTRUCTION		
<b>P138</b>		<b>P138</b>
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
Inner packagings	Intermediate packagings	Outer packagings
<b>Bags</b> plastics	Not necessary	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, solid (4H2)  <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)
<b>Additional requirement:</b> If the ends of the articles are sealed, inner packagings are not necessary.		

PACKING INSTRUCTION		
<b>P139</b>		<b>P139</b>
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
Inner packagings	Intermediate packagings	Outer packagings
<b>Bags</b> plastics  <b>Receptacles</b> metal plastics wood  <b>Reels</b>  <b>Sheets</b> paper plastics	Not necessary	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, solid (4H2)  <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)
<b>Special packing provisions:</b> <b>PP71</b> For UN Nos. 0065, 0102, 0104, 0289 and 0290, the ends of the detonating cord shall be sealed, for example, by a plug firmly fixed so that the explosive cannot escape. The ends of flexible detonating cord shall be fastened securely. <b>PP72</b> For UN 0065 and UN 0289, inner packagings are not required when they are in coils.		

P140 PACKING INSTRUCTION P140		
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
Inner packagings	Intermediate packagings	Outer packagings
<b>Bags</b> plastics <b>Receptacles</b> wood <b>Reels</b> <b>Sheets</b> paper, kraft plastics	Not necessary	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, solid (4H2) <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)
<b>Special packing provisions:</b> <b>PP73</b> For UN 0105, no inner packagings are required if the ends are sealed. <b>PP74</b> For UN 0101, the packaging shall be sift-proof except when the fuse is covered by a paper tube and both ends of the tube are covered with removable caps. <b>PP75</b> For UN 0101, steel, aluminium or other metal boxes or drums shall not be used.		

P141 PACKING INSTRUCTION P141		
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
Inner packagings	Intermediate packagings	Outer packagings
<b>Receptacles</b> fibreboard metal plastics wood <b>Trays, fitted with dividing partitions</b> plastics wood <b>Dividing partitions in the outer packagings</b>	Not necessary	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, solid (4H2) <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)

P142 PACKING INSTRUCTION P142		
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
Inner packagings	Intermediate packagings	Outer packagings
<b>Bags</b> paper plastics <b>Receptacles</b> fibreboard metal plastics wood <b>Sheets</b> paper <b>Trays, fitted with dividing partitions</b> plastics	Not necessary	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, solid (4H2) <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)

P143 PACKING INSTRUCTION P143		
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
Inner packagings	Intermediate packagings	Outer packagings
<b>Bags</b> paper, kraft plastics textile textile, rubberized <b>Receptacles</b> fibreboard metal plastics wood <b>Trays, fitted with dividing partitions</b> plastics	Not necessary	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) natural wood, sift-proof walls (4C2) plywood (4D) reconstituted wood (4F) fibreboard (4G) plastics, solid (4H2) <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plywood (1D) fibre (1G) plastics (1H1, 1H2)
<b>Additional requirement:</b> Instead of the above inner and outer packagings, composite packagings (6HH2) (plastic receptacle with outer solid box) may be used.		
<b>Special packing provision:</b>		
<b>PP76</b>	For UN Nos. 0271, 0272, 0415 and 0491, when metal packagings are used, metal packagings shall be so constructed that the risk of explosion, by reason of increase in internal pressure from internal or external causes is prevented.	

<b>PACKING INSTRUCTION</b>		
<b>P144</b>		<b>P144</b>
The following packagings are authorized, provided that the general packing provisions of 4.1.1, 4.1.3 and special packing provisions of 4.1.5 are met:		
<b>Inner packagings</b>	<b>Intermediate packagings</b>	<b>Outer packagings</b>
<b>Receptacles</b> fibreboard metal wood  <b>Dividing partitions in the outer packagings</b>	Not necessary	<b>Boxes</b> steel (4A) aluminium (4B) other metal (4N) natural wood, ordinary (4C1) with metal liner plywood (4D) with metal liner reconstituted wood (4F) with metal liner plastics, expanded (4H1) plastics, solid (4H2)  <b>Drums</b> steel (1A1, 1A2) aluminium (1B1, 1B2) other metal (1N1, 1N2) plastics (1H1, 1H2)
<b>Special packing provision:</b>		
<b>PP77</b> For UN Nos. 0248 and 0249, packagings shall be protected against the ingress of water. When water-activated contrivances are transported unpackaged, they shall be provided with at least two independent protective features which prevent the ingress of water.		